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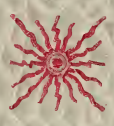
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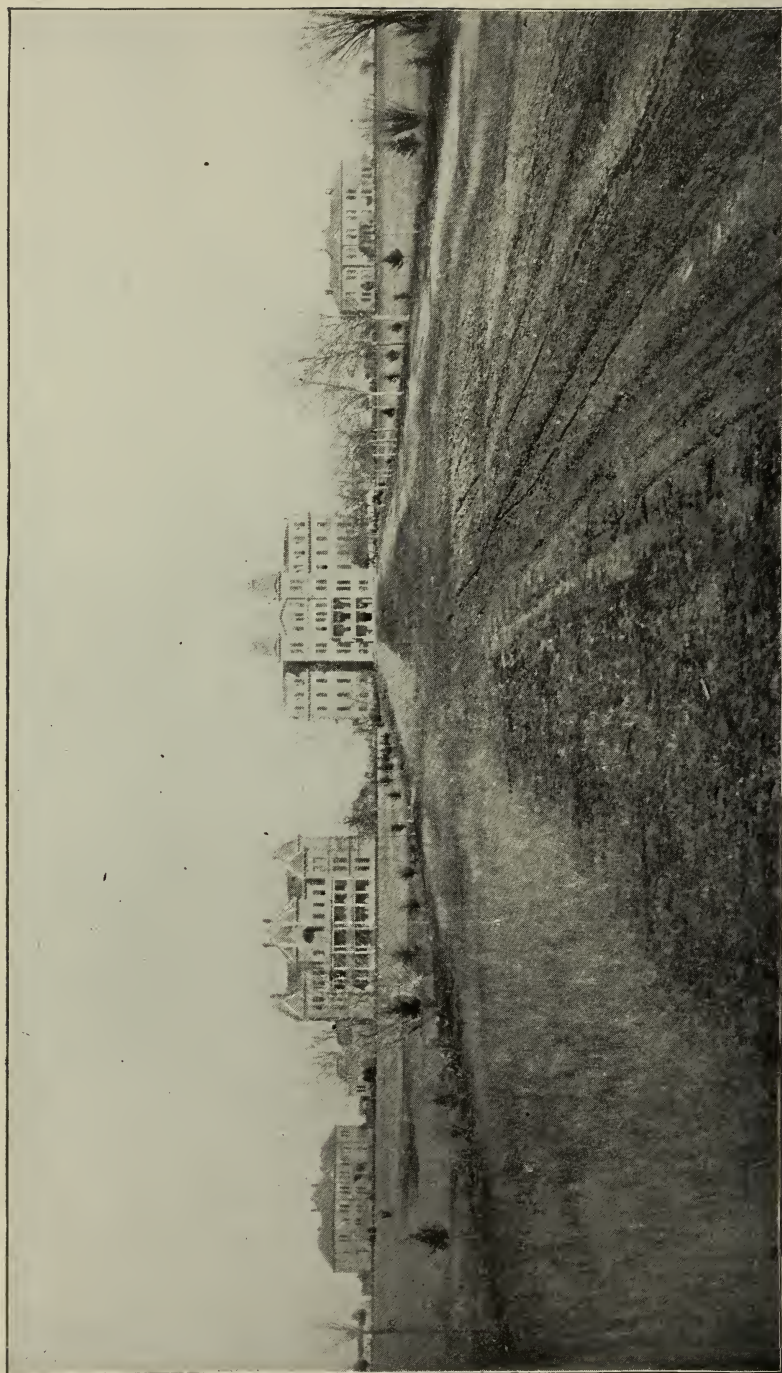
A. & M. COLLEGE



OF : TEXAS.

1895-96.





1 AUSTIN HALL.

ROSS HALL.

MAIN BUILDING.

PFEUFFER HALL.

TWENTIETH ANNUAL CATALOGUE

OF THE

AGRICULTURAL AND MECHANICAL COLLEGE

OF TEXAS.

Special attention is called to the specimen entrance examinations, pages 24, 25, 26. Young men intending to apply for admission are urged to satisfy themselves, before coming to the College, that they can answer such questions.

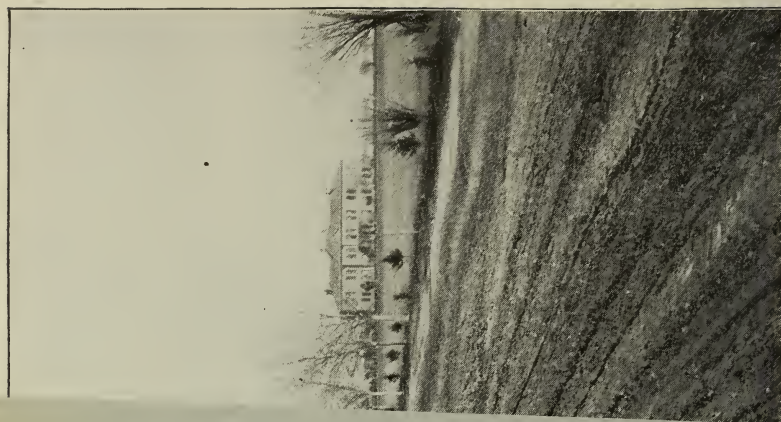


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TWENTIETH ANNUAL CATALOGUE

OF THE

AGRICULTURAL AND MECHANICAL COLLEGE

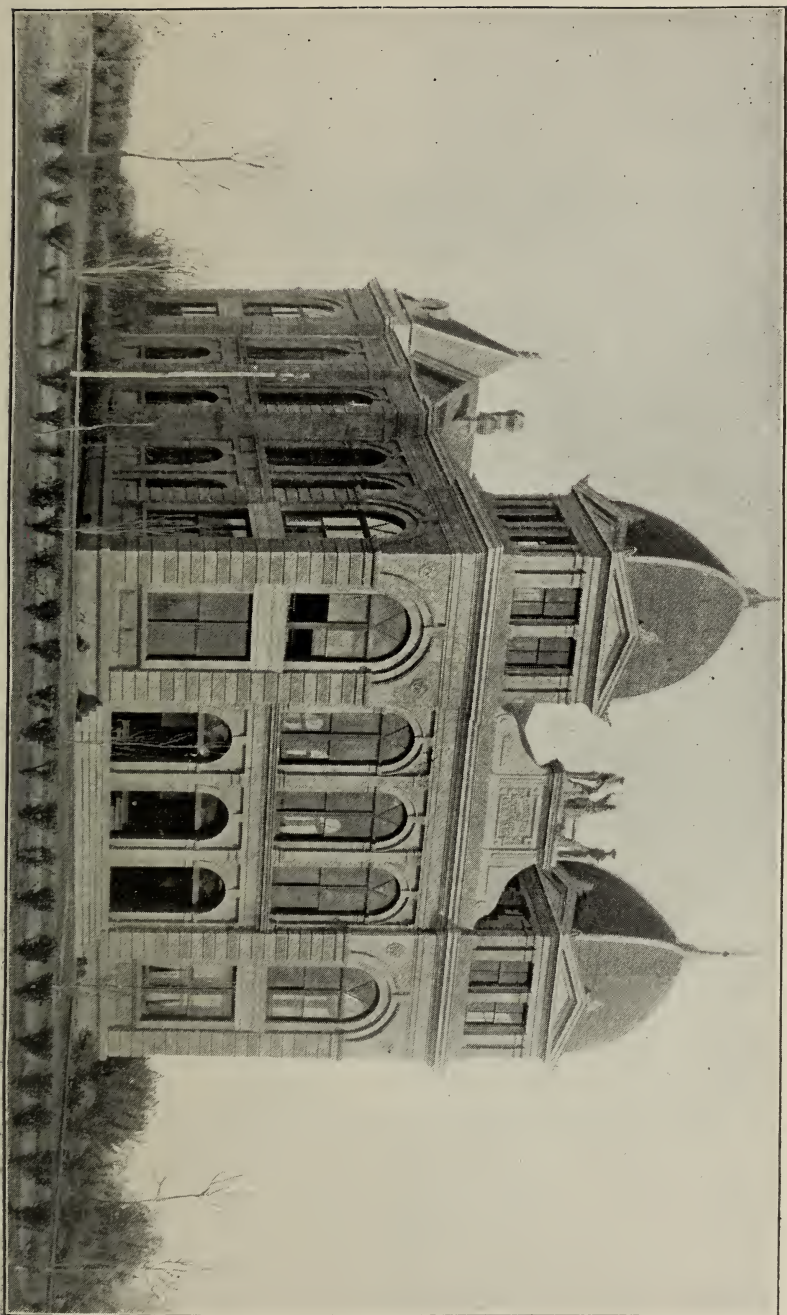
OF TEXAS.

SESSION 1895-96

RAILROAD DEPOT AND MONEY ORDER OFFICE,
COLLEGE STATION, TEXAS.



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1896



ASSEMBLY HALL,



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CALENDAR
1897.

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17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25
24	25	26	27	28	29	30	28	29	30	26	27	28	29	30	31	..
31

CALENDAR.

1896.

Fall Term begins Wednesday, September 9.

Anniversary Austin Society, November 15.

National Holiday, Thanksgiving Day.

Christmas Holiday, December 23 to January 4, 1897.

1897.

Winter Term begins Thursday, January 5, 1897.

National Holiday, February 22.

Spring Term begins March 10.

Anniversary Calliopean Society March 16.

State Holiday, April 21.

Final Examinations begin May 31.

Commencement, Sunday, June 6.

Exhibition of Departments and Work of Students, June 7.

Commencement Day, June 8.

MAIN BUILDING.

Side view.

ROSS HALL.



BOARD OF DIRECTORS.

The government of this College is vested in a Board of Directors, consisting of five members, appointed by the Governor of the State. They are "selected from different sections of the State, and hold office for six years, or during good behavior, and until their successors are qualified."

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HON. W. R. CAVITT, Secretary	Bryan
HON. G. W. BOWMAN	Plano
HON. JNO. B. LONG.....	Rusk
HON. D. A. PAULUS	Hallettsville

The Board of Directors are also the Governing Board of the Agricultural Experiment Station.

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FACULTY.

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Professor of Mechanical Engineering.

H. H. HARRINGTON, M. S.,
Professor of Chemistry and Mineralogy.
(Chemist to Experiment Station.)

CHARLES PURYEAR, M. A., C. E.,
Professor of Mathematics.

MARK FRANCIS, D. V. M.,
Professor of Veterinary Science.
(Veterinarian to Experiment Station.)

F. E. GIESECKE, M. E.,
Professor of Drawing.

J. C. NAGLE, M. A., C. E., M. C. E.,
Professor of Civil Engineering and Physics.

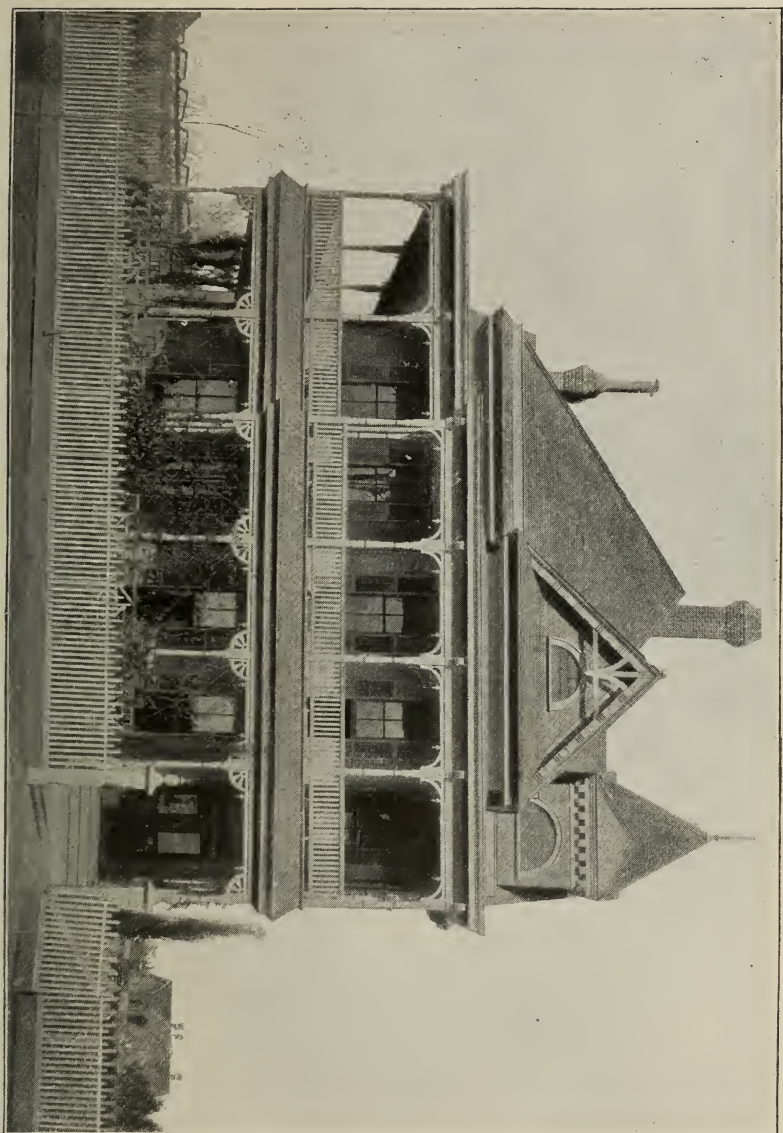
R. H. PRICE, B. S.,
Professor of Horticulture, Botany, and Entomology.
(Horticulturist to Experiment Station.)

T. C. BITTLE, A. M., PH. D.,
Professor of Languages.

J. H. CONNELL, M. Sc.,
Professor of Agriculture.
(Director of Experiment Station.)

C. W. HUSTON,
Professor of English and History.

FIRST LIEUT. GEO. T. BARTLETT, 3RD ARTILLERY, U. S. ARMY,
Professor of Military Science and Commandant of Cadets.



PRESIDENT'S HOUSE.

OTHER INSTRUCTORS.

ROBERT F. SMITH,

Associate Professor of Mathematics.

DUNCAN ADRIANCE, M. S.,

Associate Professor of Chemistry.

W. B. PHILPOTT, M. S.,

Associate Professor of English and History.

JAMES CLAYTON,

Associate Professor of Agriculture.

(Agriculturist of Experiment Station.)

A. L. BANKS, A. B., M. S.,

Adjunct Professor of Mathematics.

P. S. TILSON, M. S.,

Assistant Professor of Chemistry.

(Assistant to Station Chemist.)

H. NESS, B. S.,

Assistant Professor of Horticulture and Botany.

D. W. SPENCE, B. Sc., C. E.,

Assistant Professor of Civil Engineering and Physics, and Drawing.

R. T. BRAY, M. E., C. E.,

Assistant Professor of Mechanical Engineering.

A. M. SOULE, B. S. A.,

Assistant Professor of Agriculture.

(Assistant to Experiment Station Agriculturist.)

W. A. BANKS, A. M.,

Assistant Professor of English and History and Languages.

PROFESSOR PURYEAR,

Secretary of the Faculty and Librarian.

PROFESSOR BITTLE,

Chaplain.

OTHER OFFICERS.

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Surgeon.

J. A. BAKER,
Secretary.

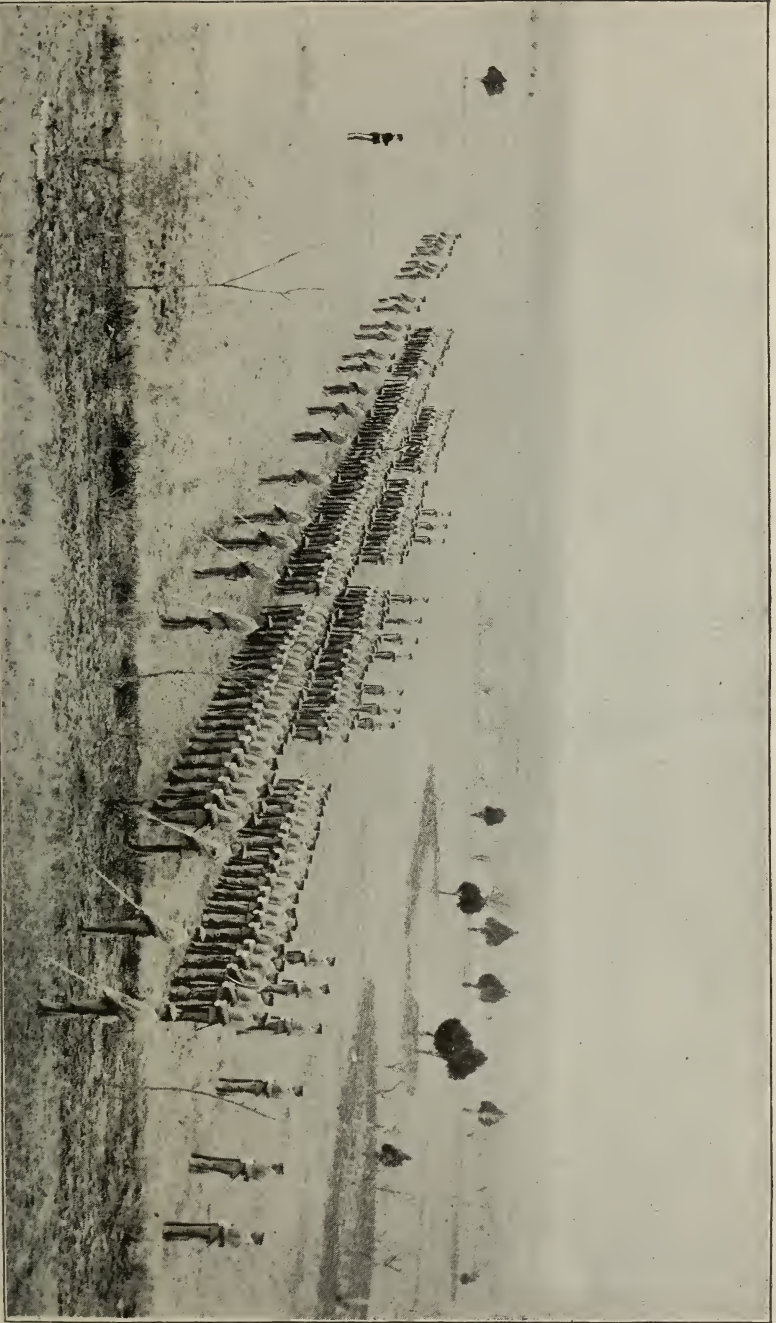
J. G. HARRISON,
Bookkeeper.

B. SBISA,
Steward.

C. A. LEWIS,
Foreman of the Carpenter Shop.

J. W. CARSON, B. S.,
Foreman of the Farm.
(Assistant to Director of Station.)

G. EBERSPACHER,
Florist.



DRESS PARADE.

CATALOGUE OF STUDENTS.

EXPLANATION.

M. S., Master of Science. Agr., Agriculture. Hort., Horticulture. Mech. Eng., Mechanical Engineering. Civ. Eng., Civil Engineering.

POST GRADUATES.

Names.	Degree.	Residence.
W. D. Clayton, B. S.....	M. S.....	College Station.
A. M. Ferguson, B. S. H.....	M. S.....	Belton.
W. F. Hutson, B. S. A.....	M. S.....	College Station.

FIRST CLASS.

Names.	Course.	Residence.
Blount, S. L.....	Agr.....	San Augustine.
Bittle, P. B.....	Agr.....	College.
Burney, J. W.....	Mech. Eng.....	Kerrville.
Ball, A. W.....	Mech. Eng.....	Fort McKavett.
Cobb, S. A.....	Civ. Eng.....	Colorado.
Cohn, S. L.....	Civ. Eng.....	Ennis.
Eberspacher, Geo.....	Mech. Eng.....	College.
Finney, C. B.....	Civ. Eng.....	College.
Goldberg, I. L.....	Hort.....	Jefferson.
Gilmore, H. A.....	Mech. Eng.....	Burnet.
Hassell, W. A., Jr.....	Civ. Eng.....	Corpus Christi.
Hutson, H. L.....	Mech. Eng.....	College.
Howell, R. W.....	Agr.....	Bryan.
Hildebrandt, A. M.....	Hort.....	College.
Krug, W.....	Hort.....	Brenham.
Kyle, H. C.....	Agr.....	Nursery.
Kerr, E. W.....	Mech. Eng.....	Vineland.
Lowry, F. A.....	Hort.....	College.
McNeill, J. C., Jr.....	Civ. Eng.....	Brazoria.
Miley, J. H.....	Civ. Eng.....	Bastrop.
Park, C. M.....	Civ. Eng.....	Dallas.
Perkins, F. D.....	Civ. Eng.....	McKinney.
Rosenthal, H. H.....	Civ. Eng.....	Jefferson.
Roberts, F. M.....	Agr.....	Terrell.
Rhodes, S. E.....	Mech. Eng.....	Bryan.
Rodriguez, D.....	Civ. Eng.....	C. P. Diaz, Mexico.

Names.	Course.	Residence.
Staples, C. M.....	Civ. Eng.	Houston.
Sanders, W. O.....	Hort.....	Bryan.
Scherer, C. L.....	Civ. Eng.	Anahuac.
Wisdom, F. L.....	Civ. Eng.	Texarkana.

SECOND CLASS.

Barclay, R. L.....	Mech. Eng.....	Temple.
Barclay, G. W.....	Civ. Eng.....	Temple.
Buhler, C. M.....	Mech. Eng.....	Victoria.
Bryan, B. F.....	Agr.....	College.
Barron, Y.....	Civ. Eng.....	Palmer.
Blount, J. F.....	Civ. Eng.....	San Augustine.
Cavitt, W. H.....	Mech. Eng.....	Bryan.
Caven, C. P.....	Agr.....	Dallas.
Clay, S. S.....	Agr.....	Independence.
Cotton, H.....	Civ. Eng.....	Houston.
Couch, E.....	Mech. Eng.....	Foreston.
Cox, R. L.....	Agr.....	Gonzales.
Connor, R. C.....	Civ. Eng.....	Connor.
*Cousins, R. W.....	Mech. Eng.....	Austin.
Carson, A. B.....	Civ. Eng.....	College.
Durham, T. O.....	Agr.....	Cleburne.
Dansby, H. P.....	Agr.....	Bryan.
*D'Echaux, H.....	Mech. Eng.....	Gibson, La.
Eldridge, H.....	Civ. Eng.....	Brenham.
Foote, Harry N.....	Mech. Eng.....	San Angelo.
Faust, Walter.....	Civ. Eng.....	New Braunfels.
Greenwood, W. W.....	Hort.....	Stoneham.
Goodrich, N. W.....	Agr.....	Waco.
Hyatt, P. F.....	Civ. Eng.....	Beaumont.
Harrison, J. W.....	Agr.....	Columbus.
Hudgins, F. D.....	Civ. Eng.....	San Antonio.
Harris, G. L.....	Mech. Eng.....	San Saba.
Hutchinson, W. F.....	Civ. Eng.....	College.
*Knowles, W. C.....	Mech. Eng.....	Palestine.
Kyle, A.....	Agr.....	Austin.
Knolle, O. J.....	Agr.....	Industry.
*Loper, Chas. A.....	Agr.....	Paris.
Leavell, Chas.....	Mech. Eng.....	Georgetown.
Lane, W. E.....	Agr.....	Manor.
Lowry, J. Y.....	Civ. Eng.....	Forest, Miss.
Lacy, W. G.....	Civ. Eng.....	Waco.
Love, A. C.....	Civ. Eng.....	Franklin.
Moursund, E. M.....	Civ. Eng.....	Fredericksburg.
Mead, John.....	Civ. Eng.....	College.

* Failed to enter.

Names.	Course.	Residence.
Nelson, R. E.....	Mech. Eng.....	Albany.
Overshiner, E. M.....	Civ. Eng.....	Valley View.
Peterson, J. D., Jr.....	Mech. Eng.....	Austin.
Post, S. G.....	Civ. Eng.....	Anderson.
Perkins, F. D.....	Civ. Eng.....	McKinney.
Roberts, C. C.....	Civ. Eng.....	Terrell.
Rollins, H. M.....	Mech. Eng.....	Merit.
Shires, F.....	Mech. Eng.....	Coalgate, I. T.
Shires, G.....	Mech. Eng.....	Coalgate, I. T.
Sims, B.....	Agr.....	Bryan.
Spears, J. C.....	Agr.....	San Angelo.
Scherer, W. A.....	Agr.....	Anahuac.
Sherwood, H. J.....	Mech. Eng.....	San Antonio.
Sternenberg, E. H.....	Civ. Eng.....	Industry.
Stark, A. M. H.....	Mech. Eng.....	Orange.
Salyer, J. H.....	Agr.....	Navasota.
Todd, C. C.....	Hort.....	Jefferson.
Ueckert, H. H.....	Civ. Eng.....	Reinhardt.
Vinther, F.....	Mech. Eng.....	Cresson.
Wright, S.....	Mech. Eng.....	Waco.
Willman, G. S.....	Civ. Eng.....	Bryan.
Williams, L. D.....	Civ. Eng.....	Austin.
Williams, H. L.....	Mech. Eng.....	Brenham.
Wilkins, W. G.....	Civ. Eng.....	Brenham.
Wheat, N.....	Civ. Eng.....	Rock Springs.

THIRD CLASS.

Abbott, H. T.....	M.....	Hillsboro.
Anderson, C. E.....	M.....	Austin.
Archibald, J. H.....	M.....	San Antonio.
Bennett, J. G.....	M.....	Dallas.
Barron, S. L.....	M.....	Thrifty.
Blalock, S. G.....	M.....	Huntsville.
Bering, R. L.....	A.....	Houston.
Berkley, P. H.....	M.....	Montgomery.
Bretschneider, W.....	M.....	Bernard Prairie.
Bussey, J. B.....	A.....	College.
Berkley, R. H.....	M.....	Montgomery.
Blatherwick, E. G.....	A.....	Centre Point.
Buchanan, W. E.....	M.....	Waco.
Barnes, R. M.....	M.....	Comanche.
Bailey, P. J.....	M.....	Allen, Miss.
Brown, F.....	M.....	Vernon.
Bradley, G. W.....	M.....	Stewards Mill.
Bullard, T. O.....	M.....	College.
Brogden, Stansel.....	M.....	Bryan.

Names.	Course.	Residence.
Crowell, J.	M.	Ennis.
Crow, Erwin	A.	Cisco.
Crittenden, E. R.	M.	Paris.
Crook, M. P.	M.	Hempstead.
Carter, Thos.	A.	Brighton.
Caldwell, C. D.	M.	Paris.
Coffman, L. S.	M.	Melissa.
Cobb, A.	A.	Cameron.
Curry, J. M.	A.	Brenham.
Clay, E. F.	A.	Independence.
Dougherty, E.	M.	Dallas.
Donalson, C. B.	M.	Kyle.
Dawson, B. A.	M.	Brenham.
Dahlich, J. D.	A.	Austin.
Duggan, T. B.	M.	San Saba.
Eblen, E. W.	M.	Paducah.
Evans, Chas. D.	M.	Austin.
Estep, A. B.	M.	San Saba.
Felder, W. H.	M.	Chappel Hill.
Foutrel, G. F.	M.	San Antonio.
Foster, S. H.	M.	Bryan.
Gieseke, W.	A.	Houston.
Greenwood, F. J.	M.	Stoneham.
Glover, W. F. H.	A.	Yemassee, S. C.
Gilbert, R. K.	A.	Sulphur Springs.
Goodwin, T. T., Jr.	M.	Bryan.
Harry, R.	M.	Dallas.
Holloway, J. W.	M.	La Grange.
Hubbard, T. A. G.	M.	Paris.
Harrison, W. A.	A.	College.
Hodge, Walter.	M.	Cleburne.
Hollingsworth, T.	M.	Cook's Springs.
Hollingsworth, R.	M.	Cook's Springs.
Hirschfeld, J.	M.	Austin.
Homann, A., Jr.	M.	New Braunfels.
Hutson, Jas. G.	A.	Yemassee, S. C.
Johnson, W. C.	M.	Bryan.
Jackson, T. J.	A.	Felder.
Johnson, C. A.	M.	Calvert.
Jenkins, J. W.	M.	Caldwell.
Kerr, J. G.	A.	Vineland.
Kernole, J. C.	A.	Bryan.
Keller, E. B.	M.	Marion.
Keith, J. R.	M.	Cleburne.
Kleine, W.	A.	Gonzales.

Names.	Course.	Residence.
*Koppe, Wm., Jr.	A.	Bryan.
Lawson, T. J., Jr.	M.	Runge.
Leary, F. E.	M.	Milford.
Lane, W. L.	M.	Greenville.
Love, Ben.	M.	Franklin.
Morse, Harvey.	A.	Los Angeles, Cal.
McConnico, A. D., Jr.	M.	Bryan.
Metcalfe, E. W.	M.	Waxahachie.
McKinnon, E.	M.	Hillsboro.
Munro, F. A.	M.	Waco.
Massenburg, B. B.	A.	Paris.
Martin, W. C.	M.	Kyle.
Morrison, P. M.	M.	Greenville.
Mathews, M. B.	M.	Greenville.
*McCorquodale, W. G.	M.	Bryan.
McCrary, J.	M.	Nesbitt.
Mixson, J. S.	M.	Eddy.
*McDowell, C. D.	M.	Edna.
Murray, E. B.	M.	Denison.
Moore, D. W.	M.	Hill's Prairie.
Mims, W. H.	M.	Laredo.
McGee, O. P.	M.	Hellandville.
Newton, G.	A.	Milano.
Neal, C. W.	M.	Rockwall.
*Powers, E. M.	M.	Marlin.
*Powers, G. H.	M.	Marlin.
Popper, Geza.	M.	Greenville.
Perkins, Geo.	M.	Ennis.
Quarles, C.	M.	Houston.
Ragsdale, R. D.	A.	Hallettsville.
Riley, E. H.	M.	Fredericksburg.
Read, W. C.	M.	DeKalb.
Rountree, T. D.	M.	Paris.
Robinson, E.	A.	Stafford.
Robson, C. G.	A.	LaGrange.
Ransom, L. B.	A.	Waxahachie.
Ross, L. E.	M.	Mexia.
Rowan, A. L.	M.	Dallas.
Reed, J. E.	M.	Goliad.
Robinson, W. L.	M.	Corsicana.
Rochelle, J. B.	M.	Gonzales.
Rawlins, H. E.	M.	Oak Cliff.
Smith, Terry.	M.	Senior.
Stiles, A. C.	M.	Waxahachie.
Stacy, Earl	M.	Austin.

* Failed to enter.

Names.	Course.	Residence.
Sneed, G. L.....	A	Engleman.
Sands, J.....	M.....	Chatfield.
Sterns, J. B.....	M.....	Houston.
Stallworth, T. B.....	M.....	Marlin.
Smith, T. L., Jr.....	M.....	Columbia.
Stockwell, M. H.....	A	Greenville.
Swenson, W. G.....	M.....	Abilene.
Smissen, H. Z.....	M.....	Sterling City.
Sample, S. G.....	A	Mansfield, La.
Sampson, J. M.....	A	Cameron.
Savage, W. F.....	M.....	Coleman City.
Taliaferro, W. F.....	A	Bryan.
*Tacquard, A.....	M.....	Hitchcock.
Tracy, H. H.....	M.....	Dallas.
Weatherford, Ion J.....	M.....	Bryan.
Waties, J. C.....	M.....	Houston.
Watt, C. P.....	A	Waco.
Wallney, Frank	M.....	Brenham.
Wilson, A. C.....	M.....	Moody.
Woodhead, E. S.....	A	Houston.
Yarborough, E. H.....	A	Navasota.

FOURTH CLASS.

Andrews, O. L.....	Harvey.
*Allen, F. G.....	McKinney.
Adkisson, R.....	Waxahachie.
Allison, J. S.	Sonora.
Astin, Erwin.....	Mumford.
*Alexander, H. B.....	Blackjack Grove.
Bettis, Robt.....	Merle.
Bowen, C. K.....	North Galveston.
Ball, L. L.....	Fort McKavett.
Barker, J. W.....	Files.
*Beckham, J. P.....	Greenville.
Barradell, N. E.....	Waxahachie.
Beasley, J.....	Dalys.
Banks, H.....	Clarksville.
Bell, Charley	Waco.
*Brown, Arthur	Houston.
Broker, Geo.....	Houston.
Barnes, S. E.....	Broughton.
Chatham, R.....	Bryan.
Chatham, W.....	Bryan.
Chambers, J. W.....	Enon.
Clay, T. T.....	Independence.

* Failed to enter.

Names.	Residence.
Cauthorn, P. E.....	Corrigan.
Charlesworth, C. T.....	Houston.
Cleaver, T. B.....	Groesbeck.
Campbell, R. W.....	Arlington.
Collins, T. J.....	Harrisburg.
Cruse, John.....	Woodville.
*Crittenden, N. C.....	Paris.
*Cahill, Mart.....	Waco.
Couch, J. G.....	Red Oak.
*Clay, W. S.....	Thorp Springs.
*Cochran, H. T.....	Belton.
Cook, L. M.....	Bryan.
DeWare, Robt.....	Jefferson.
*Denson, Jesse.....	Marshall.
Denton, Louis.....	Austin.
Diggs, W. A.....	Columbia.
Elliott, C. L. L.....	Abilene.
Ehrhardt, J.....	Westfield.
Evans, J. F.....	Jonah.
*Eichelberger, C. S.....	China Springs.
Ferguson, D. C.....	Alexandria, La.
Foreman, J. A.....	Bowie.
Farr, R. S.....	Belton.
Ferguson, J.....	Rockdale.
Fenner, A.....	Denison.
Foster, C. P.....	Bryan.
*Fields, W.....	Houston.
Goodwin, A.....	Bryan.
Green, M. D.....	Black Jack Grove.
Gunner, Ed.....	Dallas.
Harry, J.....	Dallas.
Harrison, C. C.....	Bedias.
Hawley, E. F.....	Beaumont.
*Howard, Frank.....	Terrell.
Harrison, R.....	Forest, Miss.
*Harris, W. B.....	Weatherford.
*Hudson, Duke.....	Wilderville.
Jones, H. O.....	Bryan.
Keen, T. J.....	Dalys.
Kopperl, W. S.....	Austin.
*Kasure, Spalding.....	Waco.
Lacy, H. R.....	Hutchins.
Lenert, E. A.....	LaGrange.
Langford, D. L.....	Greenville.
Luckett, A.....	Bastrop.

* Failed to enter.

Names.	Residence.
McDonald, Z. R	McKinney.
Muckleroy, Frank.....	Terrell.
*Maass, Rufus.....	Sabine Pass.
McGlaun, E. H.....	Nesbitt.
Michelson, H.....	Austin.
Milby, J. T.....	Houston.
Moon, E. C.....	Gainesville.
Munnerlyn, G. F.....	Waco.
McGee, L. E.....	St. Louis, Mo.
McCarty, O. T.....	Denison.
Melgaard, A. E.....	Brazoria.
Melgaard, B	Brazoria.
Norton, A. F.....	San Angelo.
Niblo, J. H.....	Galveston.
Nabours, B. A.....	College.
Nabours, J. A.....	Cameron.
Norton, J. T.....	San Angelo.
Noble, W. R.....	Houston.
Neely, W. H., Jr	Moody.
Pitts, W. C.....	Bryan.
Phansteel, W. B.....	Greenville.
Potts, E. W.....	Belton.
Pryor, D. M.....	Columbus.
Pace, John.....	Cuero.
Reese, Venson	Velasco.
Rogers, C. P.....	Kyle.
Rowel, Walton	Jefferson.
Riley, G. M.....	Houston.
Rogers, I. E.....	Reagan.
Suber, E. H.....	College.
Sloan, T. S.....	Marshall.
Skeen, S. P.....	Texarkana.
Stein, A.....	Austin.
Sanders, J. C.....	Waller.
Slay, Perry.....	Austin.
Schneider, A. B.....	Bastrop.
*Sims, I. J.	Gainesville.
Sellers, B. B.....	Decatur.
Savage, R. L.....	Dryden.
Tilson, T. J.....	Texarkana.
Traylor, Leslie.....	Dallas.
Thacker, R. B.....	Houston.
Touchton, T.....	Gainesville.
Thompson, C.....	Bee Creek.
*Tullis, John	Quanah.

Names.	Residence.
*Tabor, A. J., Jr.	Bryan.
*Upshaw, A. W.	Hillsboro.
Winston, J. E.	Richmond.
Wyse, Ira O.	Bryan.
Wynn, J. L.	Files.
*Wood, B.	Mexia.
*Worsham, Jerry	Huntsville.
Wold, Geo. A.	Waco.
*White, W. N.	Brady.
Whittle, C. T.	Sulphur Springs.
Word, Ira W.	Sonora.
*Williams, John G.	Waxahachie.
Yarborough, R. W.	Naborton, La.
Zipp, E.	New Braunfels.

SPECIAL STUDENT.

Elliott, J. R.	In Chemistry.	Abilene.
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SUMMARY.

Post graduates	3
First class	30
Second class	64
Third class	130
Fourth class	126
Special	1
Total	354

* Failed to enter.

OBJECTS AND POLICY.

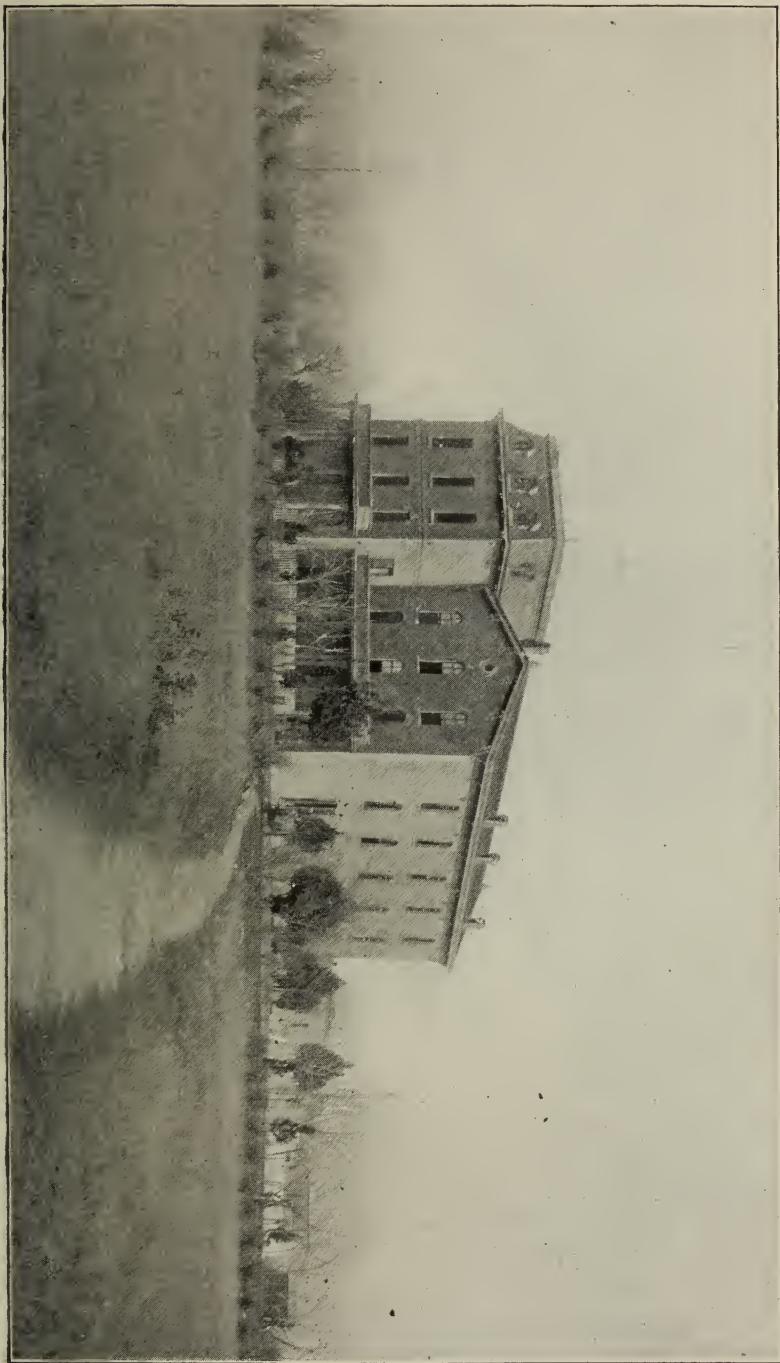
The act of Congress which established the State Agricultural and Mechanical Colleges defines their objects, but under the act there have been founded as many different schools as there are States. These institutions have presented a variety of educational schemes, which have embraced nearly all gradations from the classical and mathematical college to the manual labor industrial school. In view of this fact, it is proper to state as definitely as possible the interpretation given to the act of Congress by the authorities of this college, and the manner in which they are endeavoring to carry out its provisions.

The general object of this college is to excite and foster in the minds of our people an enthusiastic appreciation of the attractiveness and value of those pursuits by which the material development of the country is advanced.

It proposes to equip boys for their future career by the fullest development of their powers with reference to the wants of life, and acquaint them thoroughly, both theoretically and practically, with the duty, the dignity and the nobility of labor. There is a great field opening in our State for practical technical employment and a growing demand for the services of those fitted for labor in every branch of scientific knowledge, and we are now compelled to draw upon the skilled labor of other countries to fill the most lucrative, honorable and important positions in every industrial enterprise. In face of this fact, there can be no exaggeration of the value of an institution which will afford the direct advantage of conducting the student from the simplest mechanical principles to the complex order of artistic ingenuity by enabling him to combine principles, construct models and call into activity his ingenuity for designing; while a practical knowledge of the use of tools can be acquired in one-half the time necessary under the ordinary methods of obtaining a trade knowledge as an apprentice, kept at such work only as proves most profitable to the employer.

Agriculture in our country is the admitted basis of public wealth, and we must look to it as the chief source of our prosperity. The machinery of a prosperous agriculture once put in motion brings in its train a vast number of other public enterprises, creating new demands for skilled

Mess Hall.



workmanship, and the skillful hand gives dignity to these pursuits and places a higher estimate upon their value.

Instruction in agriculture and horticulture; how to plant, tend, harvest and store the products of farm and garden; how to care for all the various kinds of stock found on well regulated farms, will inculcate a taste for these pursuits, and induce young men to seek employment in the country, to the development of a self-reliant manhood, instead of wasting their lives, as is frequently the case, in the overcrowded professional ranks in the city, by being educated into a fitness for such employments only as require an abstract mental training, and ignoring altogether that which is practical. The young men of the State can acquire at this institution a knowledge that will prepare them to achieve the highest and best results in any station, through the reliable factors of education, industry and a proper moral instruction by the application of plain moral precepts to every act of life.

In addition to this, the military feature of the College is of undoubted importance, though probably not fully appreciated. The arguments in its favor are numerous, but far in advance of all others, and what is sufficiently important to at once decide the matter, is its conduciveness to health. The outdoor exercise, the erect position and expanding chest, give the lungs a free play so essential after the cramped position necessary to the school room; the pleasurable excitement accompanying the drill, the strictness of attention required to secure precision and accuracy of movement in performing the evolutions, are highly conducive to bodily health, grace and strength, and perform a very active part also in the inculcation of habits of promptness, regularity and order, and aid materially in preserving a proper discipline.

It is the business of this College to turn the attention of our young men from the overcrowded "learned professions" to those occupations which have brought abundant wealth and power to other States, and which are beginning now to attract and will repay the services of trained young men in Texas.

These objects are sought to be obtained:

By a thorough course of instruction in all practical and useful branches of knowledge, with continual application of principles to work in the shops, fields, gardens, vineyards, orchards, pastures, dairies, and other laboratories.

By relying upon text-books as little as possible and leading the students to seek information directly from observation and experiment.

By inculcating the dignity of intelligent labor—banishing the idea

that the farmer or mechanic who is worthy of the name need be any less learned than the professional man.

By inducing in the mind of the student an enthusiastic love of nature and the study of natural laws, whereby agricultural and mechanical processes become invested with absorbing interest, and are pursued in a spirit which leads to progress and success.

It will thus be seen that the authorities of this school adhere to the interpretation of the act founding it, which has been given by the author of this act, and which has been adopted by all the successful colleges of similar origin, namely: That this College is not a trade school, designed to take the place of the old apprenticeship system, but an institution where young men may receive broad and liberal training in all those sciences and arts which contribute to useful citizenship in the pursuit of all productive industries.

METHODS AND SCOPE OF INSTRUCTION.

The courses of instruction cover all that is comprised in the curricula of the best institutions of our times, except the ancient languages. The time usually devoted to these is here given to the application of the principles in the fields, shops and laboratories. Mere text-book study is regarded as comparatively of little value unless supplemented by intelligent practice in applied science.

EXPERIMENTAL WORK.

This furnishes the chief means of training students in accordance with this view, and hence a most important subsidiary object of this institution is the discovery and dissemination of all sorts of information with regard to industrial pursuits.

The action of Congress in setting aside \$15,000 per annum for the establishment and maintenance of agricultural experimental stations in the several States places at the disposal of the college the means for efficient experimental work, and offers to students the great advantages of observation and participation in researches which promise important results for the benefit of the whole country. The Agricultural Experi-



CARPENTER SHOP.

mental Station has been established at the College as one of its departments, and students in the agricultural course assist in the work of the station.

LABOR.

All students are required to devote a certain number of hours to practical work in the field or shop, as shown below under Course of Study. Some of this work is paid for, some is not. The rate of pay varies according to the character of work and the manner in which it is performed. When possible, students will be given the opportunity of performing extra voluntary labor, which will help them still further in paying their way through College.

MILITARY INSTRUCTION.

This is embraced by law in the objects of the College, and will be given such attention as is necessary for compliance with the act of Congress.

INFORMATION CONCERNING ADMISSION.

REQUIREMENTS FOR ADMISSION.

To enter the College an applicant must have attained his fifteenth year, or otherwise must have attained a degree of physical and mental advancement corresponding to that age. He must be free from contagious or infectious disease, or any deformity that would unfit him for the performance of his duties as a student of the College. He may be required to furnish evidence that he has not been dismissed from another institution of learning, and that his moral character is good.

The mental attainments necessary for entering the Fourth Class comprise a fair knowledge of geography, of elementary English grammar and composition, and of arithmetic as far as percentage, embracing the subjects of factoring, greatest common divisor, least common multiple, common and decimal fractions, and denominate numbers.

Graduates of high schools approved by the Faculty will be admitted without examination.

Applicants for the Third Class will be required to pass a satisfactory examination on the mathematics and English studied by the Fourth Class, and to make up book No. 3 of Thompson's Freehand Drawing.

Applicants for the Second Class will be required to pass a similar examination on the mathematics and English of the Fourth Class and on all the subjects studied by the Third Class in the course desired, but they may be admitted conditionally if they fail in not more than three subjects, equivalent, together, to eight hours per week for one term.

The reputation of this College for good discipline has caused parents in some instances to apply for admission for boys that had proved unmanageable and thoroughly vicious at other institutions. It is desired that such applications be not in future presented.

The proper time—that is, the BEST time—for entering the classes is at the beginning of the scholastic year. Students are admitted, however, at any time of the year, but if not fully prepared in the previous work of the class, they are then obliged to make up the deficiencies by *extra efforts* during the term.

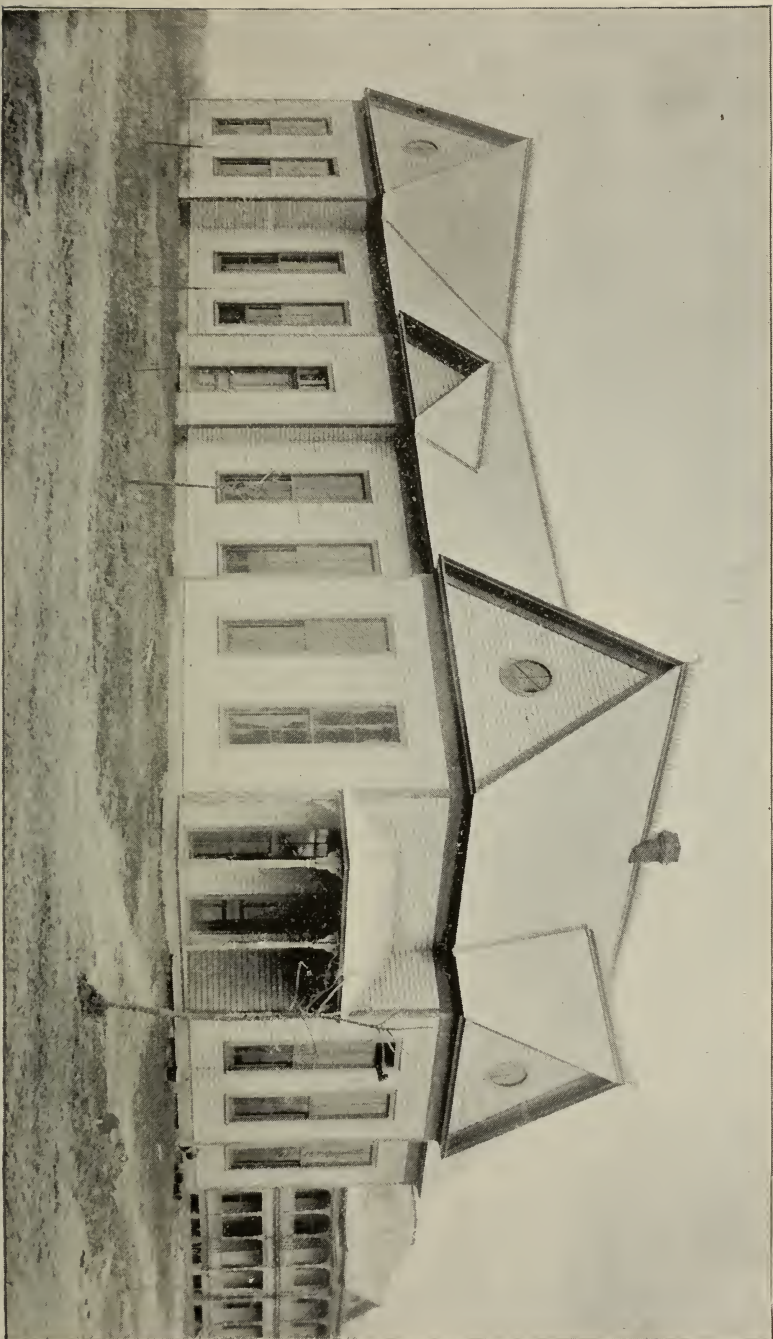
SPECIMEN ENTRANCE EXAMINATIONS.

Special attention is called to the following specimen entrance examinations. Young men intending to apply for admission are urged to satisfy themselves by actual trial before coming to College that they can answer such questions.

ENTRANCE EXAMINATIONS FOR FOURTH CLASS.

Arithmetic.

1. Add $12\frac{3}{4}$, $23\frac{5}{8}$, and $40\frac{1}{2}$.
2. Find the difference between $84\frac{1}{3}$ and $42\frac{7}{8}$.
3. Reduce $\frac{4\frac{3}{8}+3\frac{1}{2}}{3\frac{3}{4}\times 2\frac{5}{8}}$ to a simple fraction.
4. If $\frac{2}{3}$ of a farm is worth \$9000, what is the whole farm worth?
5. Reduce $\frac{3}{8}$, $\frac{4}{9}$, $\frac{5}{16}$ and $\frac{9}{25}$ to decimals and add.
6. Multiply 361.24 by 3.256 and divide the product by 81.4.
7. What will 7 bu. 3 pk. 4 qt. nuts cost at \$1.20 per peck?
8. Reduce 65 rd. 2 yd. 1 ft. 5 in. to inches.
9. Find the greatest common divisor of 108 and 420.
10. Find the least common multiple of 24, 180, and 45.



NATATORIUM.

English and History.

1. Spell correctly: eez, seez, pleez, neez, neese, poleese, acheev, be-leef, looz, brooz.
2. Name the capitals of France, Russia, Spain, Virginia, Alabama, California, Texas, Italy, and Brazil.
3. Name the rivers of Texas.
4. Name the nouns in this sentence: "Candidates for admission into the Fourth Class are examined on Spelling, Grammar, Geography, and Reading."
5. Write a half-page account of your trip to this place.
6. Read aloud this sentence: "A great elm tree spread its broad branches over it, at the foot of which bubbled up a spring of the softest and sweetest water in a little well formed of a barrel, and then stole sparkling away through the grass to a neighboring brook that bubbled along among alders and dwarf willows."

ENTRANCE EXAMINATIONS FOR THIRD CLASS.

Arithmetic. (Besides such questions as the above.)

1. Find the interest at 8 per cent on \$425 for 2 years 5 months and 18 days.
2. How long must \$450 remain at interest at 6 per cent in order to gain \$94.50?
3. If by selling land at \$30 per acre I lose 25 per cent, at what price must I sell it in order to gain 40 per cent?
4. How much carpeting 1 yard wide will be required for a room 16 by 18 feet, and what would it cost at \$1.37½ per yard?
5. What is meant by a centimeter?

Algebra.

1. Divide $5x^4 - 14x^3y + 31x^2y^2 - 22xy^3 + 12y^4$ by $5x^2 - 4xy + 3y^2$.
2. Find the factors, the greatest common divisor, the least common multiple of $a^2 - b^2$ and $a^3 + 2a^2b + ab^2$.
3. From $\frac{a+b}{a-b}$ subtract $\frac{a-b}{2(a+b)}$
4. Multiply $\frac{a-b}{a^2+2ab}$ by $\frac{a^2-4b^2}{a^2-ab}$
5. Given $\frac{3x-1}{4} - \frac{4x-5}{5} = 4 + \frac{7x+5}{10}$, find the value of x .

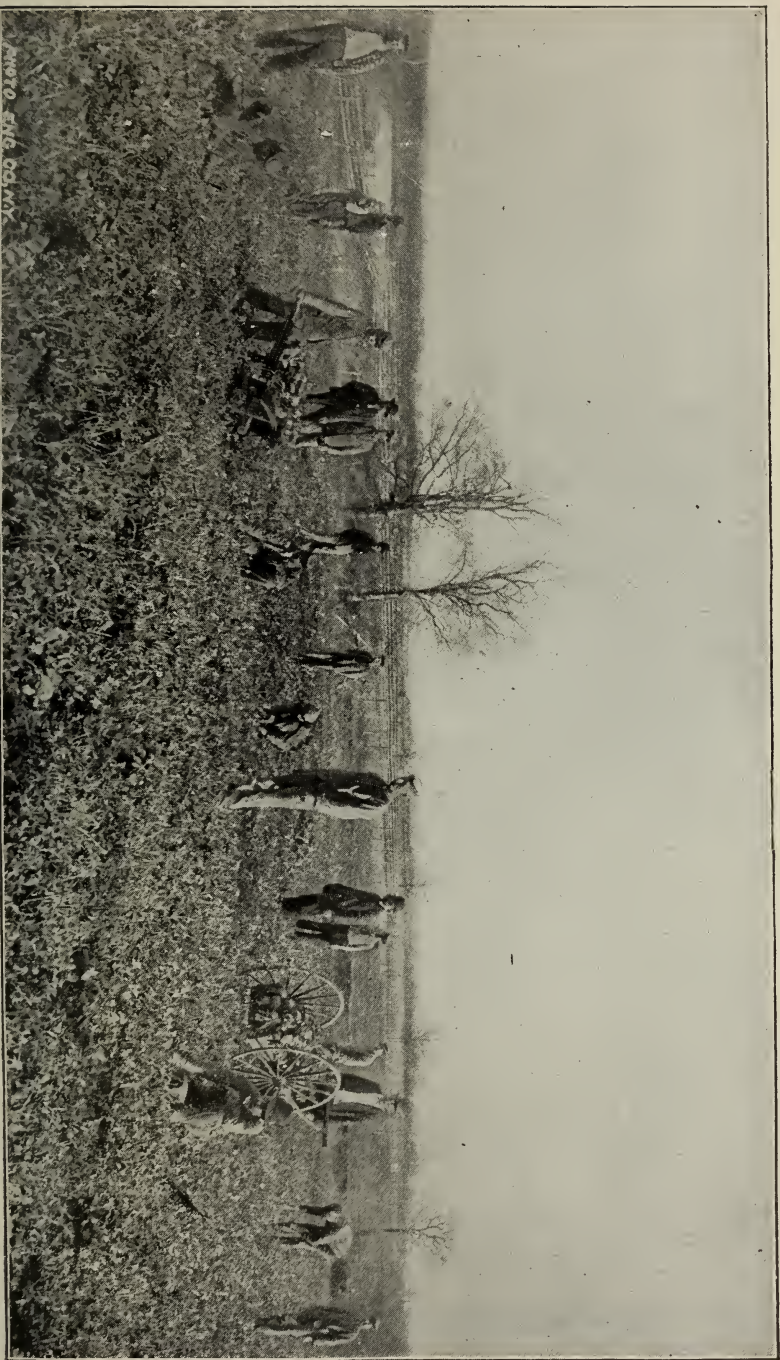
English and History.

1. Name the two Austins who were founders of Texas.
2. What hard fighters fell at the Alamo?
3. What battle won the independence of Texas? When? Generals on each side?
4. What were the causes of the revolutionary war? Name its chief battles.
5. What British general fell at the battle of New Orleans? Who led the Americans?
6. What battles of the Mexican war were fought on the soil of Texas?
7. In what battle did Stonewall Jackson fall?
8. Who commanded the Alabama?
9. Spell correctly: etherial, inseperuble, nessiserrily, stupify, resiprosity, tippical, ekzillerate, embarrasment.
10. Write a sentence containing an objective complement.
11. Write a sentence containing an attributive complement.
12. "Soft is the strain when zephyr gently blows." State the logical predicate.
13. Write the emphatic form of *laugh*, indicative, present, and past.
14. "Rising from these elevated table-lands, the traveler will see lofty ranges of granite mountains." Correct this.
15. "He likes me better than you." Clear of ambiguity.
16. "The Judge of all the earth will do right." Change to interrogative.
17. Write a sentence containing an adjective clause.
18. "I was grieved when I heard how he had obtained the character which he bore." Analyze, stating relation of subordinate clauses.
19. "That the cause is lost can not be denied." State the subject.
20. Write a brief composition on the "Resources of Texas."

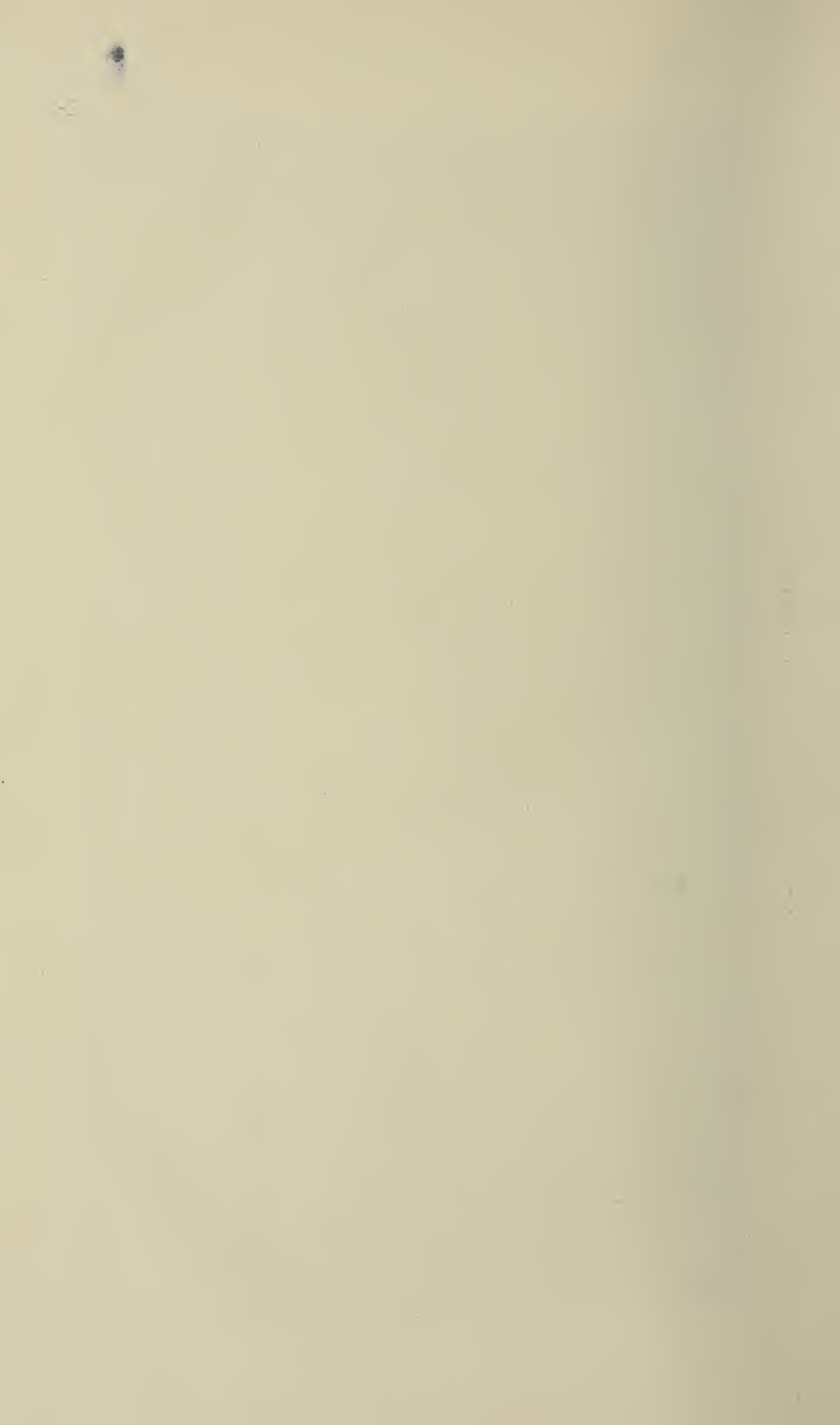
MATRICULATION.

Upon arrival at the College young men intending to enter will report as soon as possible to the President of the College. From him they will go to the several professors for examination and enrollment in classes, and to the Commandant for assignment to company and quarters.

Upon matriculation every student shall sign the following pledge: "I promise to obey the constituted authorities of this College, and to support good order and discipline. I certify that I have in my possession no fire arms or other deadly weapons."



AMERICAN ENGINEERING COMPANY



Fire arms or other deadly weapons brought to the College by students shall be deposited with the President.

EXPENSES FOR SESSION OF NINE MONTHS.

Trust fund	\$5 00
Incidental fee	5 00
Physician's fee ..	5 00
Maintenance, Fall Term	50 00
Maintenance, Winter Term	35 00
Maintenance, Spring Term	40 00
Total	\$140 00

Expenses of a graduate student will be \$15 for material used in laboratories and practical work, and \$5 for physician's fee, with charge for maintenance as above. Day students pay \$15 as trust fund, incidental fee, and physician's fee, as above.

The trust fund is to pay for property damaged or destroyed, and will be refunded if there is no charge of this kind against the student.

Incidental and physician's fees are payable on entrance, whether at the beginning of or during the session, and can not be refunded.

Maintenance includes board, fuel, washing, lights, room rent, bedsteads, mattresses, pillows, tables, washstands, chairs, buckets, basins and slop cans, all of which the College furnishes.

Each student is required to bring with him and keep on hand a sufficient supply of bed clothing, towels, etc., and underclothing sufficient for one year's wear.

Students are required to take their meals at the Mess Hall.

Payment for each term must be made in advance, but a student entering during a term will be charged maintenance for the remainder of that term only.

A student once entering for the term and having paid for that term or the balance of it, as required by the resolution of the Board of Directors, shall forfeit all claim to said payment in case of voluntary withdrawal from the College before the expiration of said term, except in case of sickness.

If on any account the prompt payment of the dues should be delayed, the President will mail to the parent or guardian of the student the following notice:

NOTICE TO PARENTS AND GUARDIANS.

“Your attention is respectfully directed to the following resolution passed by the Board of Directors of the Agricultural and Mechanical College of Texas:

Resolved, That it shall be the duty of the Treasurer to notify parents and guardians ten days after the date upon which a term payment is due that if same is not paid within twenty days thereafter (thirty days from time the payment was due), the student so in arrears will be dismissed.

Payment due.....18... Notice sent....18..

‘Limit expires.....18..’

“All communications in reference to accounts of students should be addressed to the President of the College.”

UNIFORMS, BOOKS, AND STATIONERY.

A neat uniform of cadet gray cloth is furnished here, at a cost of from \$15.50 to \$18; a working suit of drilling at a cost of about \$1.50.

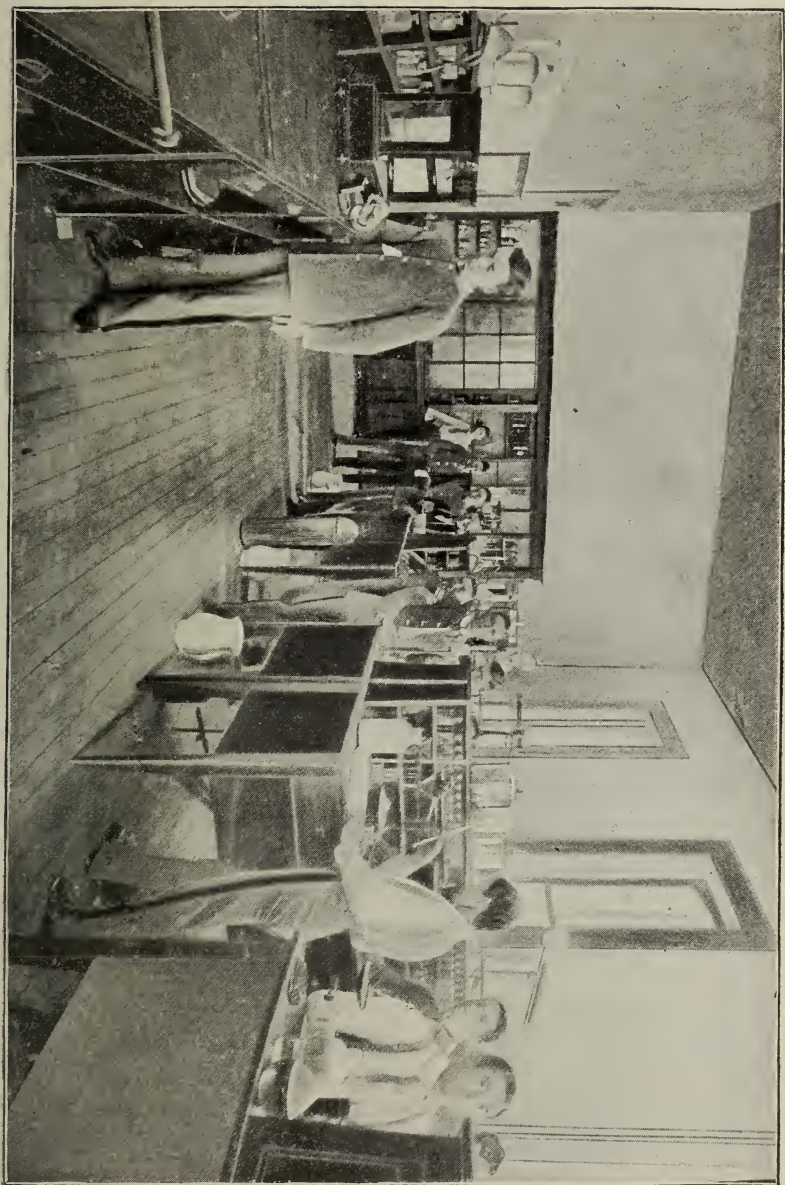
These uniforms are made by contract, and students are required to purchase from the contract tailor in order that uniformity may be secured in the cut and quality of the clothing, and that parents may be protected from imposition by irresponsible persons. The contract suits are carefully inspected by the Commandant of Cadets, and thus the full value of money expended for them is secured.

There is no charge for tuition, and through the agency of funds derived under a law of Congress text-books will be furnished with only a nominal charge for their use for each term, besides damage. Stationery may be obtained here.

BEGINNING OF THE SESSION.

The twenty-first annual session will open Wednesday, September 9, 1896, and will close on Tuesday, June 8, 1897.

Students should not arrive at the College earlier than Monday, September 7.



CHEMISTRY—STUDENTS' LABORATORY.

REGULAR COURSES OF INSTRUCTION.

There are four regular courses of study leading to degrees. For the first year they are identical, thus giving the student the elementary training requisite for a comprehension of the more technical subjects that follow, at the same time affording him opportunity for a more intelligent choice of the course he is to pursue in the higher classes. At the beginning of the "third class," or second year, choice is offered between the Agricultural and Mechanical courses, while at the beginning of the second term of the same year Mechanical students must choose between the course in Mechanical Engineering and that of Civil Engineering. At the beginning of the "second class," or third year, Agricultural students choose between the course in Agriculture and the course in Horticulture. There is no course of instruction which is not industrial. All courses lead to the degree of "Bachelor of Science." The particular course pursued is specified in the diploma.

Each course is intended to give such technical instruction as will prove most useful to the student in the line of work chosen, but at the same time there is included as much general training as may be necessary for the comprehension of the subject bearing directly on his work after graduation. It is not intended to give purely literary training here, or to prepare young men to enter the professions of law, medicine, or purely commercial calling.

The languages are optional, except as shown in the curriculum, and may be studied as subjects outside the regular courses. There is no charge for any optional study.

A condensed statement of the studies and other duties required of the students taking each of these courses can be found on pages 32 to 39. For a full explanation of the work done by departments of instruction, their equipment and methods of instruction, the reader is referred to pages 49 to 67.

THE AGRICULTURAL COURSE.

This course provides a thorough scientific knowledge of Agriculture in the Southwest. To this scientific instruction much practical work is added which serves to demonstrate the facts taught in the class-room. In order

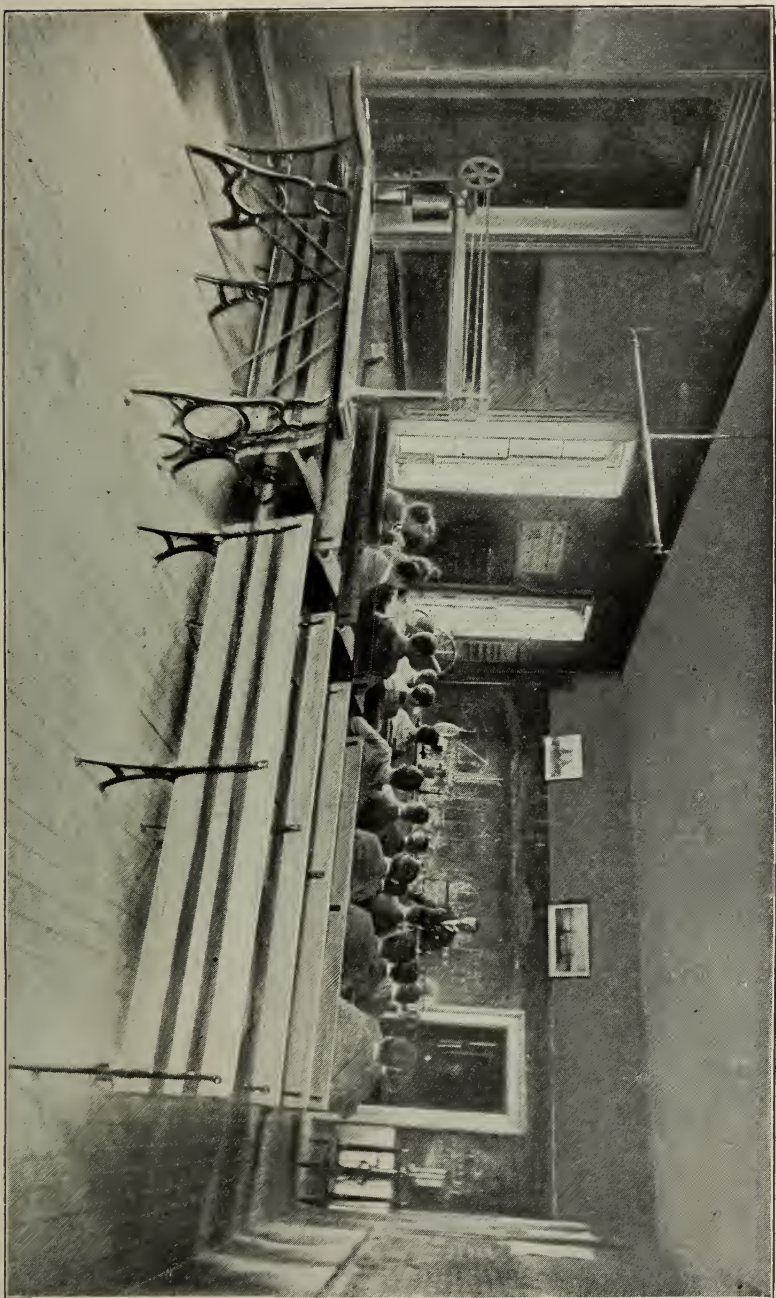
that a liberal education may be supplied, much time is given to the study of English Language and History, and to Mathematics. The foreign languages are optional. Class-rooms and fully equipped scientific laboratories are provided for instruction in the sciences relating to Agriculture, Chemistry, Botany, Zoology, and Physics. The scientific principles are taught in their application to the growth of grain and forage crops, production of pork and beef, feeding and care of milk herd, manufacture of butter and cheese, cultivation of cotton, vegetable gardening, and in the irrigation of field and garden crops. The course prepares a young man for taking charge of a farm or superintending any branch of stockraising or dairying now practiced in the State.

HORTICULTURAL COURSE.

The object of the Horticultural course is to prepare the student to engage in the highest development of the Horticultural industry. He is taught how to propagate the various plants; to plan, set, cultivate and manage orchards, vineyards and gardens to best advantage. How to bring contentment and happiness to the homes of rural lives by the cultivation of trees, shrubbery, flowers, and grass is considered. The knowledge of Botany enables the student to understand the laws of plant growth. The knowledge of Entomology enables the student to prevent injury done to plants by injurious insects. In order to give the student a well rounded education, other allied sciences, such as Mathematics, Chemistry, Veterinary Science, English, Physics, and German or Latin are taught.

MECHANICAL COURSE.

The object of the course in Mechanical Engineering is to educate the student not simply to become a mechanic, but also to enable him to take charge of men and tools, erect machinery, lay out plans, etc., with the minimum amount of further preparation. This necessitates a study not only of engineering problems, but also demands a broad foundation of useful knowledge, and a training which leads as much as possible to originality in thought and quick perception of the objects sought. With this in view the subjects studied in this course are carefully selected and may be found in detail on page 63.



SECTION ROOM—DEPARTMENT OF CIVIL ENGINEERING AND PHYSICS.

CIVIL ENGINEERING COURSE.

This course is intended to prepare young men for entrance upon professional practice and advanced study in some one of the many branches included in the scope of Civil Engineering; to enable the graduate to survey and map areas; to locate, construct and maintain highways, railroads, streets, pavements, water works systems, sewerage systems, canals, dams, irrigation ditches, bridges, and other structures; to become draughtsmen; and in fact to enter upon the advanced study necessary for almost any one of the special lines embraced in the work of the Civil Engineer.

CURRICULA.

The subjects embraced in these courses are shown in detail on the following pages; the numerals indicate the number of hours per week; practice and work are indicated by *italics*. The numerals in parenthesis indicate the totals in recitations and in practice and work.

AGRICULTURAL COURSE.

FOURTH CLASS.

FALL TERM.

Arithmetic	5
English	5
History of Texas	5
Physical Geography	(17)-2
<i>Carpentry Practice</i>	4
<i>Agricultural Work</i>	2½
<i>Free-hand Drawing</i>	1½
<i>Penmanship</i>	1½
<i>Infantry Drill</i>	(12½)-3

WINTER TERM.

Algebra	5
English	5
History of United States....	5
Physical Geography	2
Bookkeeping	(19)-2
<i>Carpentry Practice</i>	4
<i>Agricultural Work</i>	2½
<i>Free-hand Drawing</i>	(8)-1½

SPRING TERM.

Algebra	5
English	5
History of United States....	5
Bookkeeping	(17)-2
<i>Carpentry Practice</i>	4
<i>Agricultural Work</i>	2½
<i>Free-hand Drawing</i>	1½
<i>Infantry Drill</i>	(11)-3

HORTICULTURAL COURSE.

FOURTH CLASS.

FALL TERM.

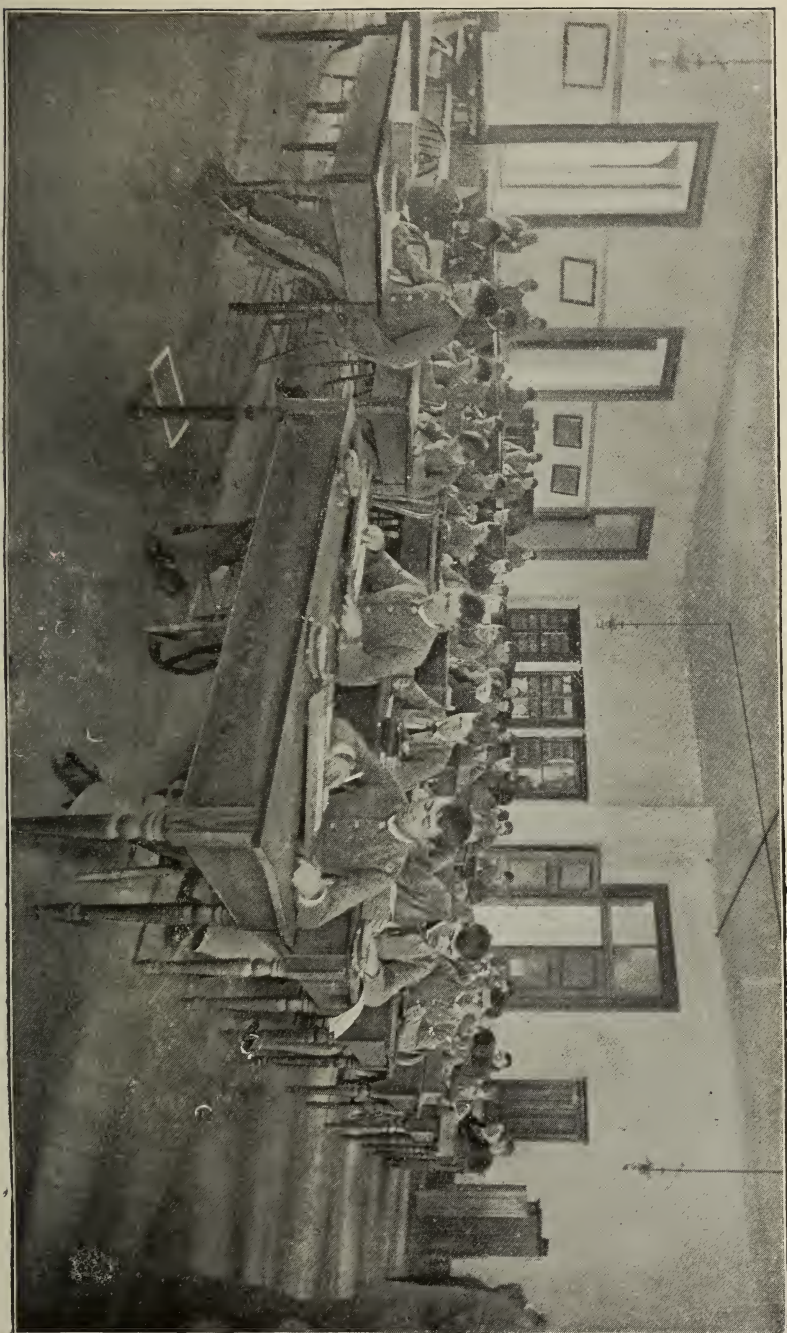
Arithmetic	5
English	5
History of Texas	5
Physical Geography	(17)-2
<i>Carpentry Practice</i>	4
<i>Agricultural Work</i>	2½
<i>Free-hand Drawing</i>	1½
<i>Penmanship</i>	1½
<i>Infantry Drill</i>	(12½)-3

WINTER TERM.

Algebra.....	5
English.....	5
History of United States....	5
Physical Geography	2
Bookkeeping	(19)-2
<i>Carpentry Practice</i>	4
<i>Agricultural Work</i>	2½
<i>Free-hand Drawing</i>	(8)-1½

SPRING TERM.

Algebra...	5
English.....	5
History of United States....	5
Bookkeeping	(17)-2
<i>Carpentry Practice</i>	4
<i>Agricultural Work</i>	2½
<i>Free-hand Drawing</i>	1½
<i>Infantry Drill</i>	(11)-3



DRAWING ROOM No. 1.

CURRICULA—continued.

MECHANICAL ENGINEERING
COURSE.

CIVIL ENGINEERING
COURSE.

FOURTH CLASS.

FOURTH CLASS.

FALL TERM.

FALL TERM.

Arithmetic.	5
English.	5
History of Texas.	5
Physical Geography.	(17)-2
<i>Carpentry Practice</i>	4
<i>Agricultural Work</i>	2½
<i>Free-hand Drawing</i>	1½
<i>Penmanship</i>	1½
Infantry Drill.	(12½)-3

Arithmetic.	5
English.	5
History of Texas.	5
Physical Geography.	(17)-2
<i>Carpentry Practice</i>	4
<i>Agricultural Work</i>	2½
<i>Free-hand Drawing</i>	1½
<i>Penmanship</i>	1½
Infantry Drill.	(12½)-3

WINTER TERM.

WINTER TERM.

Algebra.	5
English.	5
History of United States.	5
Physical Geography.	2
Bookkeeping.	(19)-2
<i>Carpentry Practice</i>	4
<i>Agricultural Work</i>	2½
<i>Free-hand Drawing</i>	(8)-1½

Algebra.	5
English.	5
History of United States.	5
Physical Geography.	2
Bookkeeping.	(19)-2
<i>Carpentry Practice</i>	4
<i>Agricultural Work</i>	2½
<i>Free-hand Drawing</i>	(8)-1½

SPRING TERM.

SPRING TERM.

Algebra.	5
English.	5
History of United States.	5
Bookkeeping.	(17)-2
<i>Carpentry Practice</i>	4
<i>Agricultural Work</i>	2½
<i>Free-hand Drawing</i>	1½
Infantry Drill.	(11)-3

Algebra.	5
English.	5
History of United States.	5
Bookkeeping.	(17)-2
<i>Carpentry Practice</i>	4
<i>Agricultural Work</i>	2½
<i>Free-hand Drawing</i>	1½
Infantry Drill.	(11)-3

CURRICULA—continued.

AGRICULTURAL COURSE.

THIRD CLASS.

FALL TERM.

Algebra	5
English and History	5
Botany and Fruit Culture...	4
Physics.....(18)-4	
<i>Agricultural and Horticultural</i>	
<i>Work</i>	5
<i>Free-hand Drawing</i>	1½
<i>Infantry Drill</i>	(9½)-3

WINTER TERM.

Algebra and Geometry . . .	5
English and History	5
Stock Breeding	4
Physics.....	3
Physiology	(20)-3
<i>Agricultural and Horticultural</i>	
<i>Work</i>	5
<i>Free-hand Drawing</i>	(6½)-1½

SPRING TERM.

Geometry.....	5
English and History.....	5
Grasses.....	3
Vegetable Culture.....	2
Systematic Botany.....(19)-4	
<i>Agricultural and Horticultural</i>	
<i>Work</i>	5
<i>Free-hand Drawing</i>	1½
<i>Mechanical Drawing</i>	1½
<i>Infantry Drill</i>.....(11)-3	

HORTICULTURAL COURSE.

THIRD CLASS.

FALL TERM.

Algebra	5
English and History.....	5
Botany and Fruit Culture...	4
Physics.....(18)-4	
<i>Agricultural and Horticultural</i>	
<i>Work</i>	5
<i>Free-hand Drawing</i>	1½
<i>Infantry Drill</i>	(9½)-3

WINTER TERM.

Algebra and Geometry. . .	5
English and History.....	5
Stock Breeding	4
Physics.....	3
Physiology	(20)-3
<i>Agricultural and Horticultural</i>	
<i>Work</i>	5
<i>Free-hand Drawing</i>	(6½)-1½

SPRING TERM.

Geometry.....	5
English and History.....	5
Grasses.....	3
Vegetable Culture.....	2
Systematic Botany.....(19)-4	
<i>Agricultural and Horticultural</i>	
<i>Work</i>	5
<i>Free-hand Drawing</i>	1½
<i>Mechanical Drawing</i>	1½
<i>Infantry Drill</i>	(11)-3

CURRICULA—continued.

 MECHANICAL ENGINEERING
COURSE.

THIRD CLASS.

FALL TERM.

Algebra	5
English and History.....	5
M. E. Lectures	2
Physics.....(16)-4	
<i>Shop Practice</i>	5
<i>Mechanical Drawing</i>	3
<i>Infantry Drill</i>.....(11)-3	

WINTER TERM.

Algebra	2
Geometry	5
English and History....	5
Steam Engine.....	3
Physics.....(18)-3	
<i>Shop Practice</i>	5
<i>Mechanical Drawing</i> (8)-3	

SPRING TERM.

Algebra	2
Geometry.....	5
English and History.....	5
Steam Engine.....	3
Electricity and Magnetism .(18)-3	
<i>Shop Practice</i>	5
<i>Mechanical Drawing</i>	3
<i>Infantry Drill</i>(11)-3	

 CIVIL ENGINEERING
COURSE.

THIRD CLASS.

FALL TERM.

Algebra	5
English and History	5
M. E. Lectures	2
Physics.....(16)-4	
<i>Shop Practice</i>	5
<i>Mechanical Drawing</i>	3
<i>Infantry Drill</i>.....(11)-3	

WINTER TERM.

Algebra	2
Geometry	5
English and History	5
Physics.....(16)-4	
<i>Shop Practice</i>	5
<i>Mechanical Drawing</i> (8)-3	

SPRING TERM.

Algebra	2
Geometry.....	5
English and History.....	5
Road Making	2
Electricity and Magnetism .(17)-3	
<i>Shop Practice</i>	5
<i>Mechanical Drawing</i>	3
<i>Infantry Drill</i>.....(11)-3	

CURRICULA—continued.

AGRICULTURAL COURSE.

SECOND CLASS.

FALL TERM.

Geometry and Trigonometry.	4
Breeds of Live Stock.....	5
Entomology	2
Inorganic Chemistry	4
Veterinary Medicine	(17)-2
<i>Agricultural and Horticultural</i>	
<i>Work</i>	5
<i>Analytical Chemistry</i>	2½
<i>Infantry Drill</i>	(10½)-3

WINTER TERM.

Trigonometry.....	4
English	4
Dairying	2
Inorganic Chemistry	4
Veterinary Medicine	2
Drill Regulations	(18)-2
<i>Agricultural Work</i>	5
<i>Analytical Chemistry</i>	(10)-5

SPRING TERM.

Algebra	4
History of England	2
Dairying	2
Irrigation and Drainage	3
Organic Chemistry	4
Surveying	(18)-3
<i>Agricultural Work</i>	2½
<i>Analytical Chemistry</i>	5
<i>Surveying</i>	—
<i>Zoology</i>	2
<i>Infantry and Artillery Drill</i> , (12½)-3	

HORTICULTURAL COURSE.

SECOND CLASS.

FALL TERM.

Geometry and Trigonometry.	3
Structural Botany	4
Entomology.....	2
Inorganic Chemistry	4
Veterinary Medicine	2
German or Latin.....	(18)-3
<i>Horticultural Work</i>	5
<i>Analytical Chemistry</i>	2½
<i>Entomology</i>	2
<i>Infantry Drill</i>	(12½)-3

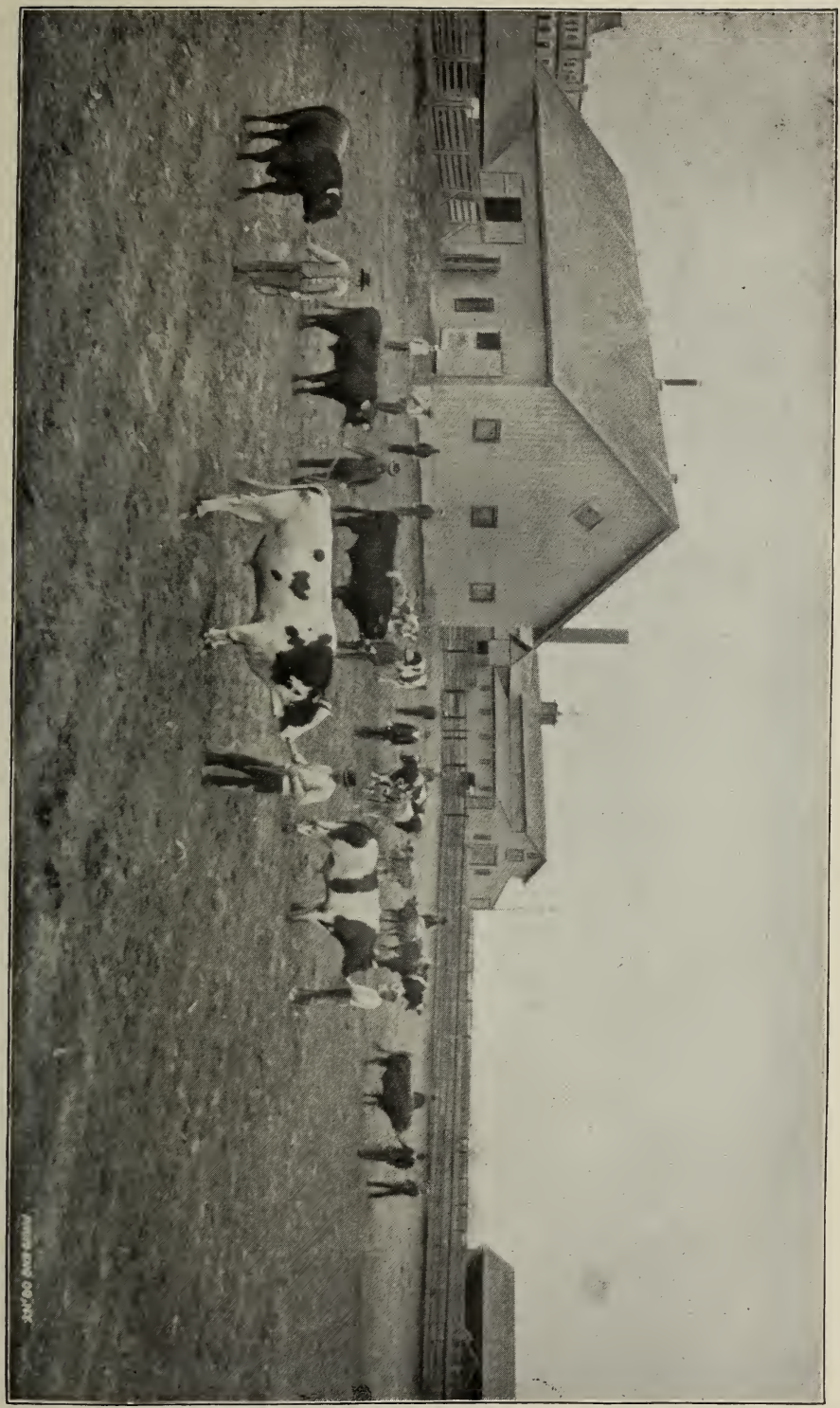
WINTER TERM.

Trigonometry.....	3
English.....	4
Inorganic Chemistry	4
Veterinary Medicine	2
German or Latin.....	3
Drill Regulations	(18)-2
Botany.....	2½
Analytical Chemistry	(7½)-5

SPRING TERM.

Algebra	3
History of England.....	2
Small Fruit Culture... ..	3
Organic Chemistry	4
German or Latin.....	3
Surveying	(18)-3
<i>Horticulture</i>	2½
<i>Analytical Chemistry</i>	5
<i>Surveying</i>	—
<i>Zoology</i>	2
<i>Infantry and Artillery Drill</i> , (12½)-3	

BARN AND PURE BREED CATTLE.



W. H. & C. O. J. R.

CURRICULA—continued.

 MECHANICAL ENGINEERING
COURSE.

SECOND CLASS.

FALL TERM.

Geometry and Trigonometry.	5
Steam Engine.....	4
Inorganic Chemistry	4
Descriptive Geometry	(18)-5
<i>Shop Practice</i>	5
<i>Mechanical Drawing</i>	4
<i>Infantry Drill</i>	(12)-3

WINTER TERM.

Trigonometry.....	4
English.....	4
Slide Valve.....	4
Inorganic Chemistry	4
Drill Regulations	(18)-2
<i>Shop Practice</i>	5
<i>Mechanical Drawing</i>	(9)-4

SPRING TERM.

Algebra	5
History of England	2
Graphics	4
Metallurgy	4
Kinematic Drawing.....	1
Surveying	(19)-3
<i>Shop Practice</i>	5
<i>Mechanical Drawing</i>	4
<i>Surveying</i>	—
<i>Infantry and Artillery Drill</i> .	(12)-3

 CIVIL ENGINEERING
COURSE.

SECOND CLASS.

FALL TERM

Geometry and Trigonometry.	5
Road Making	2
Inorganic Chemistry	4
Descriptive Geometry.....	5
German or French	(19)-3
<i>Shop Practice</i>	5
<i>Mechanical Drawing</i>	4
<i>Infantry Drill</i>	(12)-3

WINTER TERM.

Trigonometry.....	4
English.....	4
Graphic Statics.....	2
Inorganic Chemistry	4
German or French.....	3
Drill Regulations	(19)-2
<i>Shop Practice</i>	5
<i>Mechanical Drawing</i>	(9)-4

SPRING TERM.

Algebra	5
History of England.....	2
Surveying	5
Geology.....	3
German or French	(18)-3
<i>Shop Practice</i>	5
<i>Mechanical Drawing</i>	4
<i>Surveying</i>	—
<i>Infantry and Artillery Drill</i> .	(12)-3

CURRICULA—continued.

AGRICULTURAL COURSE.

FIRST CLASS.

FALL TERM.

English Literature.....	4
Feeding Animals	5
Industrial Chemistry.....	4
Veterinary Surgery	(16)-3
<i>Agricultural Work</i>	2½
<i>Analytical Chemistry</i>	4
<i>Veterinary Practice</i>	2
<i>Infantry Drill</i>	(11½)-3

WINTER TERM.

Feeding Animals.....	5
Landscape Gardening	1
Forestry.....	2
Agricultural Chemistry.....	5
Veterinary Surgery	3
Military Science Lectures ..	(17)-1
<i>Agricultural Work</i>	5
<i>Analytical Chemistry</i>	2½
<i>Dissecting</i>	(12½)-5

SPRING TERM.

History of Greece and Rome.	2
Farm Management.....	5
Injurious Insects.....	2
Forage Plants.....	2
Geology	4
Veterinary Surgery	(18)-3
<i>Agricultural Work</i>	5
<i>Analytical Chemistry</i>	2½
<i>Veterinary Practice</i>	2½
<i>Infantry and Artillery Drill</i> .	(13)-3

Thesis.

HORTICULTURAL COURSE.

FIRST CLASS.

FALL TERM.

English Literature.....	4
Horticulture	2
Fungi and Plant Diseases...	2
Industrial Chemistry.....	4
Veterinary Surgery	3
German or Latin.....	(18)-3
<i>Botany</i>	5
<i>Analytical Chemistry</i>	4
<i>Veterinary Practice</i>	2
<i>Infantry Drill</i>	(14)-3

WINTER TERM.

Forestry.....	2
Landscape Gardening	1
Agricultural Chemistry.....	5
Veterinary Surgery.....	3
German or Latin	3
Military Science Lectures ..	(15)-1
<i>Horticulture</i>	5
<i>Analytical Chemistry</i>	2½
<i>Dissecting</i>	(12½)-5

SPRING TERM.

History of Greece and Rome.	2
Plant Variation and Breeding	2
Injurious Insects.....	2
Forage Plants.....	2
Spraying of Plants.....	2
Veterinary Surgery	3
German or Latin.....	(16)-3
<i>Horticulture</i>	5
<i>Analytical Chemistry</i>	2½
<i>Veterinary Practice</i>	2½
<i>Infantry and Artillery Drill</i> .	(13)-3

Thesis.

CURRICULA—continued.

 MECHANICAL ENGINEERING
COURSE.

FIRST CLASS.

FALL TERM.

Analytical Geometry, Me- chanics.....	5
English Literature.....	4
Mechanism	5
Metallurgy	(18)-4
<i>Shop Practice</i>	5
<i>Metallurgy</i>	2
<i>Mechanical Drawing</i>	4
<i>Infantry Drill</i>	(14)-3

WINTER TERM.

Analytical Geometry, Cal- culus	5
Mechanical Engineering	5
Metallurgy	3
Machine Design	4
Military Science Lectures ..	(18)-1
<i>Experimental Work in Engi- neering</i>	5
<i>Metallurgy</i>	2
<i>Mechanical Drawing</i>	(11)-4

SPRING TERM.

Calculus	5
History of Greece and Rome.	2
Mechanical Engineering	5
Machine Design	(15)-3
<i>Experimental Work in Engi- neering</i>	5
<i>Metallurgy</i>	2
<i>Machine Design and Drawing</i>	2½
<i>Infantry and Artillery Drill</i> , (12½)-3	
Thesis.	

 CIVIL ENGINEERING
COURSE.

FIRST CLASS.

FALL TERM.

Analytical Geometry, Me- chanics.....	5
English Literature.....	4
Railroad Engineering.....	5
Sewers and Drains.....	2
German or French	(19)-3
<i>Civil Engineering</i>	5
<i>Mechanical Drawing</i>	5
<i>Infantry Drill</i>	(13)-3

WINTER TERM.

Analytical Geometry, Cal- culus	5
Mechanics of Materials, Roofs and Bridges.....	5
Hydraulics	4
German or French.....	3
Military Science Lectures ..	(18)-1
<i>Analytical Chemistry</i>	5
<i>Mechanical Drawing</i>	(10)-5

SPRING TERM.

Calculus	5
History of Greece and Rome.	2
Roofs and Bridges	6
German or French.....	(16)-3
<i>Testing, Designing, Field Practice</i>	7½
<i>Mechanical Drawing</i>	2½
<i>Infantry and Artillery Drill</i> .	(13)-3
Thesis.	

TEXT-BOOKS.

FOURTH CLASS.

AGRICULTURE: Physical Geography, *Maury*.

DRAWING: Bookkeeping, *Bryant and Stratton*.

ENGLISH AND HISTORY: Elementary Grammar, Advanced Grammar, *Patterson*; Composition, *Chittenden*; United States History, *Lee*.

MATHEMATICS: Arithmetic, *Greenleaf*; Algebra, *Wells*.

THIRD CLASS.

CIVIL ENGINEERING AND PHYSICS: Physics, *Carhart and Chute*; Electricity, *Thompson*; Roads, Streets, and Pavements, *Gillmore*.

DRAWING: Mechanical Drawing, *Anthony*.

ENGLISH AND HISTORY: Rhetoric, *Genung*; General History, *Myers*.

HORTICULTURE: Truck Gardening South, *Oemler*; Fruit Culture, *Thomas*; *Wood's Manual*; College Botany, *Bastin*.

MATHEMATICS: Algebra, *Wells*; Geometry, *Wentworth*.

MECHANICAL ENGINEERING: Steam Engine, *Kinealy*.

VETERINARY SCIENCE: Comparative Physiology, *Mills*.

SECOND CLASS.

CHEMISTRY: Inorganic Chemistry, *Storer-Lindsay*; Organic Chemistry, *Remsen*; Blowpipe Analysis, *Nason*; Qualitative Wet Analysis, *Miller*; Metallurgy, *Bloxam*; Geology, *Le Conte*.

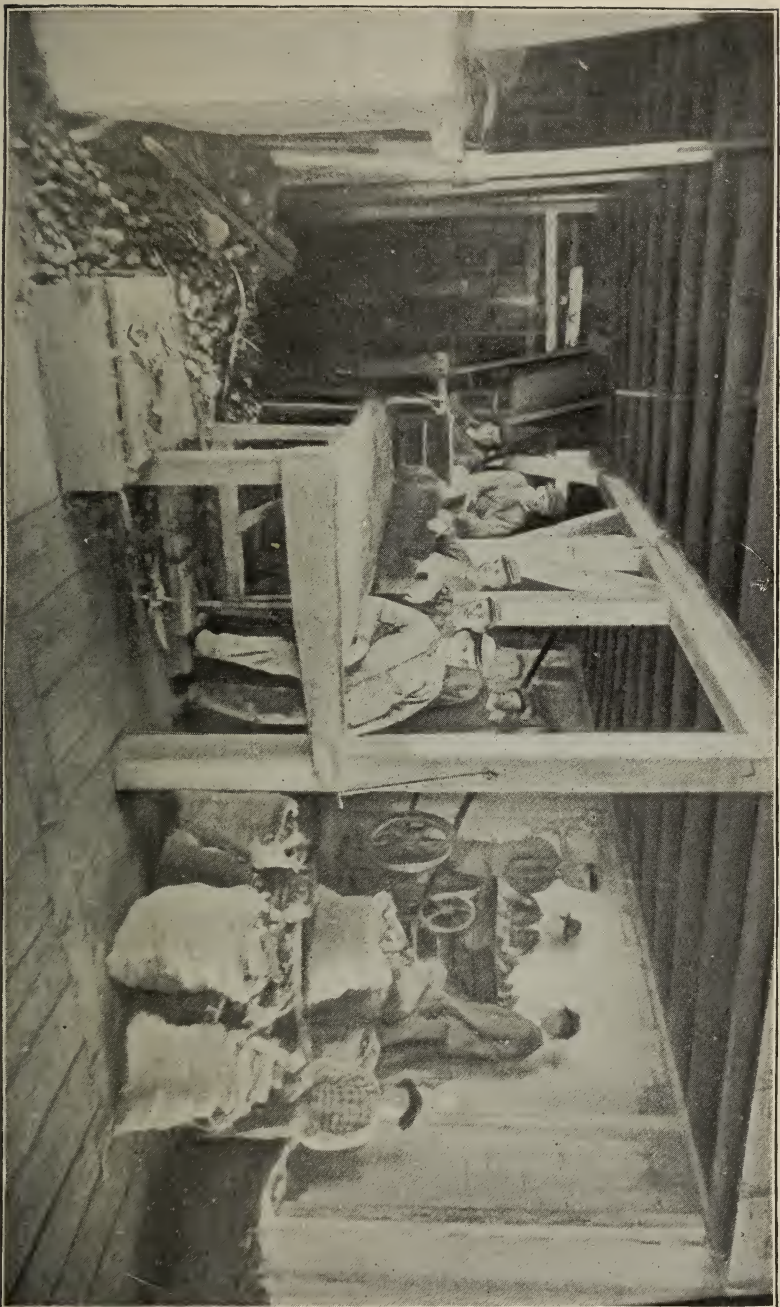
CIVIL ENGINEERING AND PHYSICS: Surveying, *Davies*, *Hodgman*; Graphical Statics, *Merriman and Jacoby*.

DRAWING: Descriptive Geometry, *Faunce*.

ENGLISH AND HISTORY: English Language, *Meiklejohn*; History of England, *Buckley*.

LANGUAGES: German Grammar, *Joynes-Meisner*; German Reader, *Deutsch*; Spanish Grammar, *De Tornos*; Readers, *Knapp*, *Caesar*; French Grammar, *Whitney*; Latin Grammar, *Coy*.

HORTICULTURE: Physiological Botany, *Vines*; Entomology, *Packard*.



STUDENTS WORKING IN BARN.

MATHEMATICS: Algebra, *Wells*; Geometry, *Wentworth*; Trigonometry, *Wells*.

MECHANICAL ENGINEERING: Steam Engine, *Kinealy*; Slide Valve, *Halsey*.

MILITARY SCIENCE: Drill Regulations.

VETERINARY SCIENCE: Veterinary Medicine, *Robertson*.

FIRST CLASS.

AGRICULTURE: Feeding Animals, *Armsby*.

CHEMISTRY: Agricultural Chemistry, *Storer*; Industrial Chemistry, *Sadtler*; Metallurgy, *Bloxam and Roberts-Austin*; Geology, *Le Conte*.

CIVIL ENGINEERING AND PHYSICS: Field Engineer, *Shunk*; Sewers and Drains, *Adams*; Sewage Disposal, *Corfield*; Stresses by Graphic Methods, *Merriman and Jacoby*; Mechanics of Materials, *Merriman*; Hydraulics, *Merriman*; Roofs and Bridges, *Merriman and Jacoby*; Hand Book, *Carnegie*.

DRAWING: Machine Design, *Low and Bevis*.

ENGLISH AND HISTORY: History of Greece and Rome, *Sheldon*.

HORTICULTURE: Forestry, *Hough*; Viticulture, *Husman*; Landscape Gardening, *Long*.

LANGUAGES: German Grammar, *Joynes-Meisner*; German Prose, *Boisen*; Spanish Grammar, *De Tornos*; Spanish Readings, *Knapp*; Latin Grammar, *Coy*; French Grammar, *Whitney*.

MATHEMATICS: Analytical Geometry, *Nichols*; Elementary Mechanics, *Wood*; Practical Calculus, *Peck*.

MECHANICAL ENGINEERING: Graphical Statics, *Merriman and Jacoby*.

MILITARY SCIENCE: United States Army Regulations.

VETERINARY SCIENCE: Veterinary Surgery, *Williams, Liautard*; Veterinary Anatomy, *Chauveau*; Materia Medica, *Bartholow*; Horse Shoeing, *Fleming*; Veterinary Obstetrics, *Fleming*.

[NOTE.—As the Text Books are subject to change, students are advised not to purchase books before entering the College. The College keeps a supply of books, and furnishes them to students at a nominal charge for their use and for damage. Students are given the privilege of retaining them at cost price. Students will not be required to purchase drawing instruments.]

SCHEDULE OF RECITATIONS.

In order to show definitely the manner in which the time of students is employed, the following schedule of daily work is appended.

Studies falling in the same hour are in different courses. Instructive work in the shops or laboratories is in this schedule designated as "practice." The larger classes are, as necessity may arise, divided into sections which may recite or work in the several departments at the same time under different instructors.



CHEMISTRY—PRIVATE LABORATORY.

FALL SCHEDULE, 1896.
FIRST CLASS.

HOURS.	Pe r iod.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8:00-8:40	1	English.....	English.....	English.....	English.....	Latin.....
8:40-9:30	2	German.....	Latin.....	German.....	Latin.....	German.....
9:40-10:30	3	Mathematics.....	Mathematics.....	Mathematics.....	Mathematics.....	Mathematics.....
10:30-11:20	4	Metallurgy.....	Metallurgy.....	Metallurgy.....	Metallurgy.....	Veterinary Surgery.....
11:20-12:10	5	Veterinary Surgery.....	Civil Engineering.....	Veterinary Surgery.....	Civil Engineering.....	French.....
12:10-1:00	6	French.....	Agriculture.....	Agriculture.....	Agriculture.....	Agriculture.....
2:00-4:00	.....	Horticulture.....	Horticulture.....	Horticulture.....	Horticulture.....	Mechanical Engineering.....
2:00-4:30	.....	Mechanical Engineering.....	Mechanical Engineering.....	Mechanical Engineering.....	Mechanical Engineering.....	Civil Engineering.....
2:00-4:30	.....	Civil Engineering.....	Civil Engineering.....	Civil Engineering.....	Civil Engineering.....	Chemistry.....
5:00-6:00	.....	Chemical Practice.....	Chemistry.....	Chemical Practice.....	Veterinary Laboratory.....	Metallurgy.....
	.....	M. E. Practice.....	Agricultural Work.....	Drawing.....	C. E. Practice.....	Horticultural Work.....
	.....	Drill.....	Horticultural Work.....	Drill.....	C. E. Practice.....	C. E. Practice.....
	.....					Drill.....

SECOND CLASS.

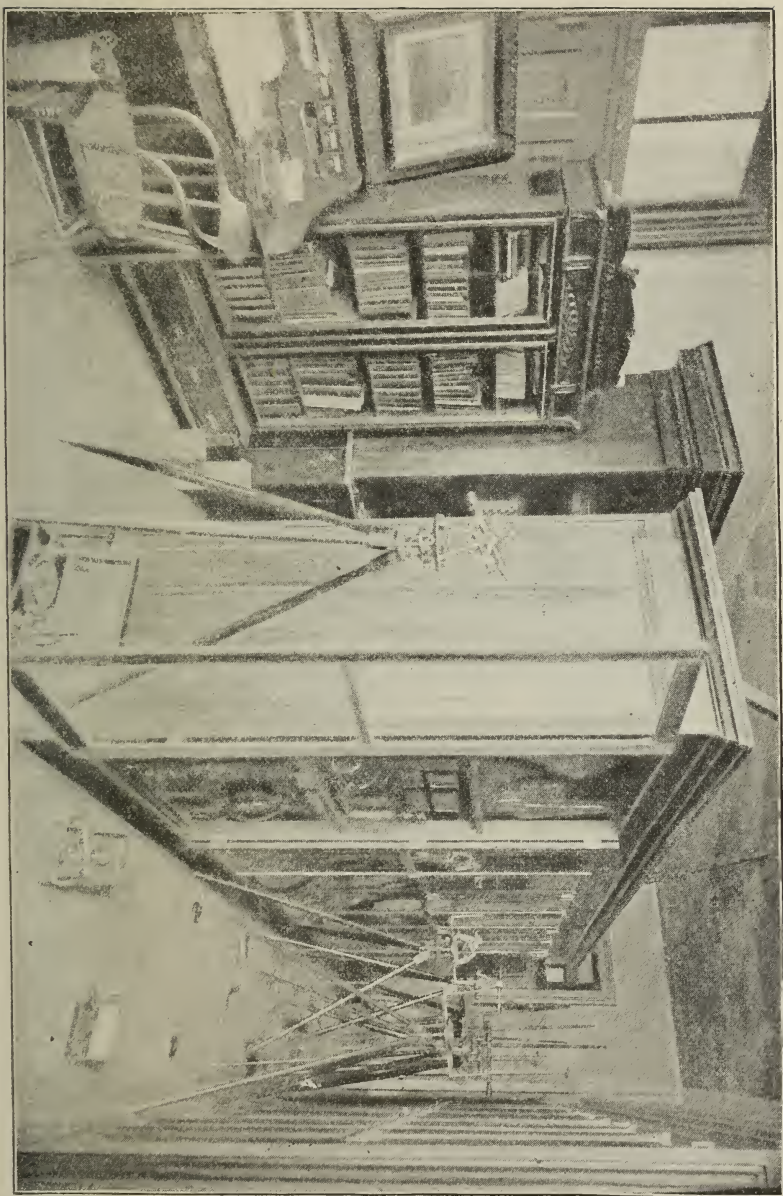
HOURS.	Pe r iod.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8:00-8:50	1	French.....	German.....	French.....	German.....	German.....
8:50-9:40	2	Descriptive Geometry—1.....	Descriptive Geometry—1.....	Descriptive Geometry—1.....	Descriptive Geometry—1.....	Descriptive Geometry—1.....
9:40-10:30	3	Descriptive Geometry—2.....	Descriptive Geometry—2.....	Descriptive Geometry—2.....	Descriptive Geometry—2.....	Descriptive Geometry—2.....
10:30-11:20	4	Entomology.....	Veterinary Medicine.....	Entomology.....	Veterinary Medicine.....	Latin.....
11:20-12:10	5	Civil Engineering.....	Mechanical Engineering.....	Mechanical Engineering.....	Mechanical Engineering.....	Mechanical Engineering.....
12:10-1:00	6	Breeds of Stock.....	Breeds of Stock.....	Breeds of Stock.....	Breeds of Stock.....	Breeds of Stock.....
2:00-4:00	.....	Latin.....	Latin.....	Botany.....	Botany.....	Botany.....
2:00-4:30	.....	Mathematics—1.....	Mathematics—1.....	Mathematics—1.....	Mathematics—1.....	Mathematics—1.....
2:00-4:30	.....	Chemistry—2.....	Chemistry—2.....	Chemistry—2.....	Chemistry—2.....	French.....
2:00-4:30	.....	Latin.....	Mathematics—3.....	Mathematics—3.....	Mathematics—3.....	Mathematics—3.....
5:00-6:00	.....	Chemistry—1 and 3.....	Chemistry—1 and 3.....	Chemistry—1 and 3.....	Chemistry—1 and 3.....	Mathematics—2.....
	.....	Mathematics—2.....	Mathematics—2.....	Mathematics—2.....	Drawing.....	Drawing.....
	.....	Chemical Practice—1.....	Chemical Practice—1.....	M. E. Practice.....	Horticultural Work.....	Chemical Practice.....
	.....	M. E. Practice.....	M. E. Practice.....	Drill.....	Drill.....	Drill.....

FALL SCHEDULE, 1896. THIRD CLASS.

HOURS.	Pe- 'riod.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8:00-8:50	1	English-4	English-4	English-4	English-4	English-4.
8:50-9:40	1	Physics-1	Physics-1	Physics-1	Physics-1	English-2.
8:50-9:40	2	English-2	English-2	English-2	English-2	English-1.
8:50-9:40	2	Physics-3	Physics-3	Physics-3	Physics-3	Mathematics-2 and 3.
9:40-10:30	3	English-1	English-1	English-1	English-1	M. E. Lectures-D.
9:40-10:30	3	Mathematics-2 and 3.	Mathematics-2 and 3.	Mathematics-2 and 3.	Mathematics-2 and 3.	Mathematics-4.
9:40-10:30	3	Physics-4	Physics-4	Physics-4	Physics-4	Botany.
10:30-11:20	4	M. E. Lectures-S.	M. E. Lectures-S.	M. E. Lectures-D.	M. E. Lectures-S.	English-3.
10:30-11:20	4	Drawing-D.	Drawing-S.	Drawing-S.	Drawing-A.	Mathematics-1.
11:20-12:10	5	Mathematics-1.	Mathematics-4.	Mathematics-4.	Mathematics-4	Mathematics-1.
12:10-1:00	6	Botany.	Mathematics-1.	Botany.	Botany.	Physics-2.
12:10-1:00	6	English-3.	English-3.	English-3	English-3	M. E. Practice
12:10-1:00	6	Mathematics-1.	Mathematics-1.	Mathematics-1.	Mathematics-1.	Drill.
2:00-4:00	.....	Physics-2.	Physics-2.	Physics-2.	Physics-2.	
2:00-4:00	.....	Free-hand Drawing.	Free-hand Drawing.	Drawing-S.	Drill.	
2:00-4:00	.....	M. E. Practice.	M. E. Practice.	Horticultural Work		
5:00-6:00	.....	Drill.	Drill.	Drill.		

FOURTH CLASS.

HOURS.	Pe- 'riod.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8:00-8:50	1	English-1	English-1	English-1	English-1	English-1.
8:50-9:40	2	English-3	English-3	English-3	English-3	English-3.
8:50-9:40	2	Mathematics-1 and 2.	Mathematics-1 and 2.	Mathematics-1 and 2.	Mathematics-1 and 2.	Mathematics-1 and 2.
9:40-10:30	3	Physical Geography-A.	Physical Geography-B.	Physical Geography-A.	Physical Geography-B.	English-2 and 3.
9:40-10:30	3	Drawing-B.	Drawing-A.	Drawing-B.	Drawing-A.	English-1 and 2.
10:30-11:20	4	English-2 and 3.	English-2 and 3.	English-2 and 3.	English-2 and 3.	Mathematics-3.
10:30-11:20	4	English-1 and 2.	English-1 and 2.	English-1 and 2.	English-1 and 2.	Drill.
11:20-12:10	5	Mathematics-3.	Mathematics-3.	Mathematics-3.	Mathematics-3.	
11:20-12:10	5	Drawing-A.	Drawing-B.	Drawing-A.	Drawing-B.	
12:10-1:00	6	M. E. Practice	M. E. Practice.	M. E. Practice.		
2:00-4:00	.....	Agricultural Work	Agricultural Work			
5:00-6:00	.....	Drill.	Drill.	Drill.		



GRADUATE COURSES.

Graduate studies in the Agricultural or Horticultural Courses lead to the Degree of Master of Science (M. S.); in the Mechanical and Civil Engineering Courses to the Degrees of Mechanical Engineer (M. E.) and Civil Engineer (C. E.) respectively.

It is required for admission to study for one of these degrees that the candidate be a graduate of this College, or of some other institution approved by the Faculty. He must select a major subject in the department in which his first degree was taken, and two minor subjects from allied departments, and one foreign language. The course of study will occupy two years, at least one of which must be spent in residence at the College. The student must pass satisfactory examinations upon the subjects of the course, and must submit an approved thesis.

Graduate students are under the general regulations of the College, but are not subject to military discipline; they may, however, be required to assist in preserving order in the barracks; and must give continued satisfaction in their studies.

The course of study must be selected from the following prescribed subjects. The selection must be submitted to and approved by the Faculty, and no change may be made without their permission.

AGRICULTURE.

Scientific and experimental work is offered graduate students in stock raising, feeding, culture of field crops, or dairying for the purpose of extending their information and rendering them better capable of superintending these lines of work. The studies embraced are drainage and irrigation, studies in selection and cross-breeding to improve farm crops and forage plants, scientific investigations of milk, and the conduct of feeding and field experiments.

CHEMISTRY.

Quantitative analysis, physiological and industrial chemistry; theoretical and organic chemistry; agricultural chemistry; standard reference books; current chemical literature. Final thesis on original work.

CIVIL ENGINEERING AND PHYSICS.

A. CIVIL ENGINEERING.

Advanced work is offered in the following subjects: Hydrographic surveying; hydraulic and water supply engineering; masonry construction; stereotomy; geodesy; least squares; strains in draw bridges and other continuous structures; theory of the strength of materials; experimental work with testing machines; designing; detail and shop drawing; thesis.

B. PHYSICS.

Analytic mechanics and hydro-mechanics; advanced work in sound, heat, light, and electricity; work in the laboratory.

DRAWING.

Machine Design, *Low and Bevis*.

Descriptive Geometry, *Watson*.

Shades and Shadows, *Lawrence*.

Such advanced work in drawing as may be needed by the student for his special course.

ENGLISH AND HISTORY.

A. ENGLISH.

Anglo-Saxon and Norman-French origins of the language. Advanced studies in the literature.

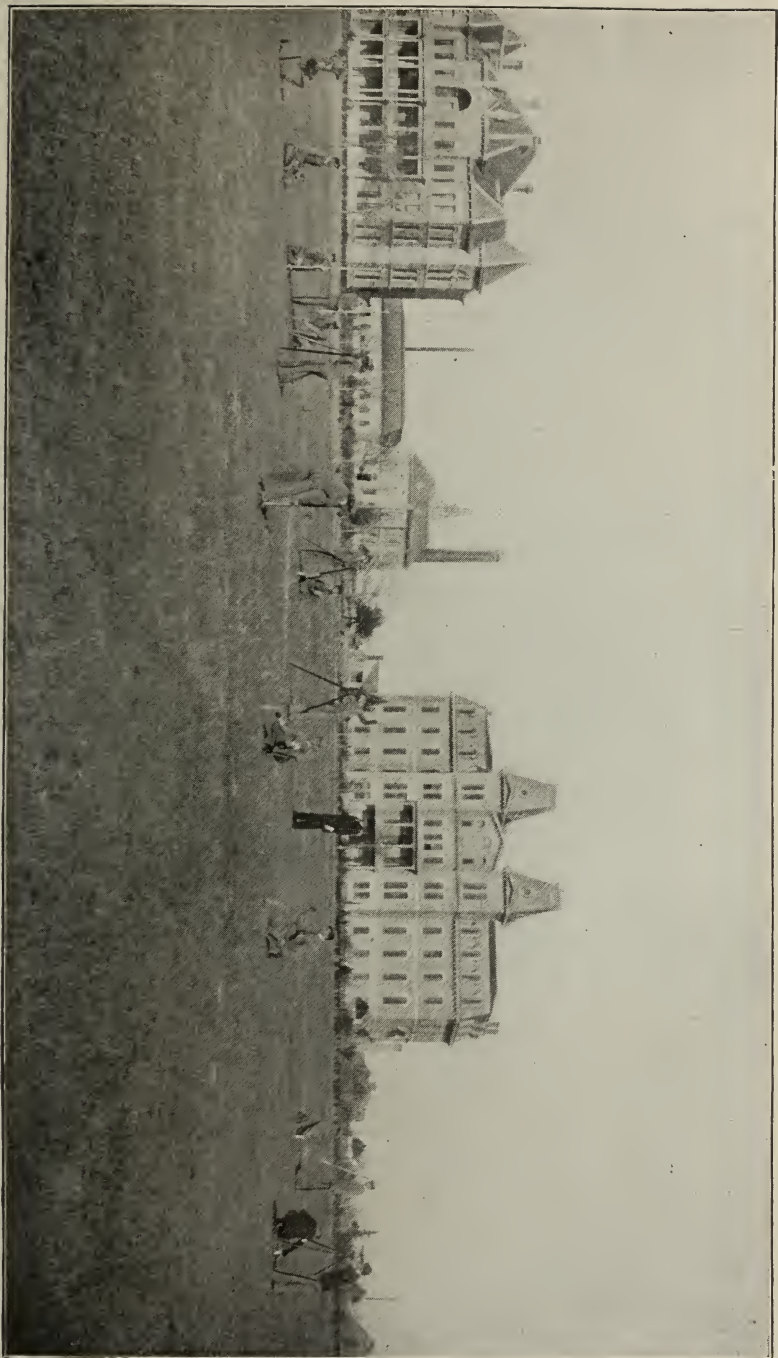
B. HISTORY.

The beginnings of civilization and the principles of ethnology. Original investigation in some special line.

HORTICULTURE AND BOTANY.

A. HORTICULTURE.

Propagation and improvement of cultivated plants; fertilization and cross-fertilization; forestry; pomology; management of glass houses; entomology continued, including anatomy of types; laboratory work on



classification; special study of insecticides and management of an apiary; experimental work throughout the two years in hybridizing, nursery work and management, and commercial gardening; assisting in other experimental work.

B. BOTANY.

Grasses continued, reading, laboratory work, and field experiments; mycology, thesis on special work, and original research with the microscope; microscopic work in plant history, including micro-chemistry and mounting; development of mosses and ferns; drawings and readings; collections of one hundred plant specimens; animals and plants under domestication; economic botany.

LANGUAGES.

The course in this department will embrace such studies and exercises as will lead to a thorough and practical knowledge of either German or French language and literature.

MATHEMATICS.

Advanced Analytical Geometry; Differential and Integral Calculus; Analytical Mechanics; Differential Equations.

MECHANICAL ENGINEERING.

Continuation of fourth year's work and Steam Engine (by Rankine) begun in first year. Experimental work in the machine shop; Steam Engine (by Rankine) completed; special subjects and original designing in second year. Practice same as in fourth year.

ELECTIVE COURSES.

Beginning with next session, elective courses, extending through two years will be offered, subject to the following conditions, the students in these courses to be known as irregular students:

1. To enter upon an elective course the student must be able to com-

ply with the requirements for admission to the Third Class. He must elect, in conformity to the published schedule, studies for which he is qualified, amounting to at least eighteen hours per week, and practice amounting to at least seven hours per week for each term, besides drill as given to regular students; his selection to be subject to the approval of the Committee on Elective Courses. In his second year all his work must be selected from classes above the third.

2. A student in an elective course, upon the completion of the equivalent of two full years' work, as defined above, shall be entitled to a certificate signed by the President and the heads of the departments in which he studied.

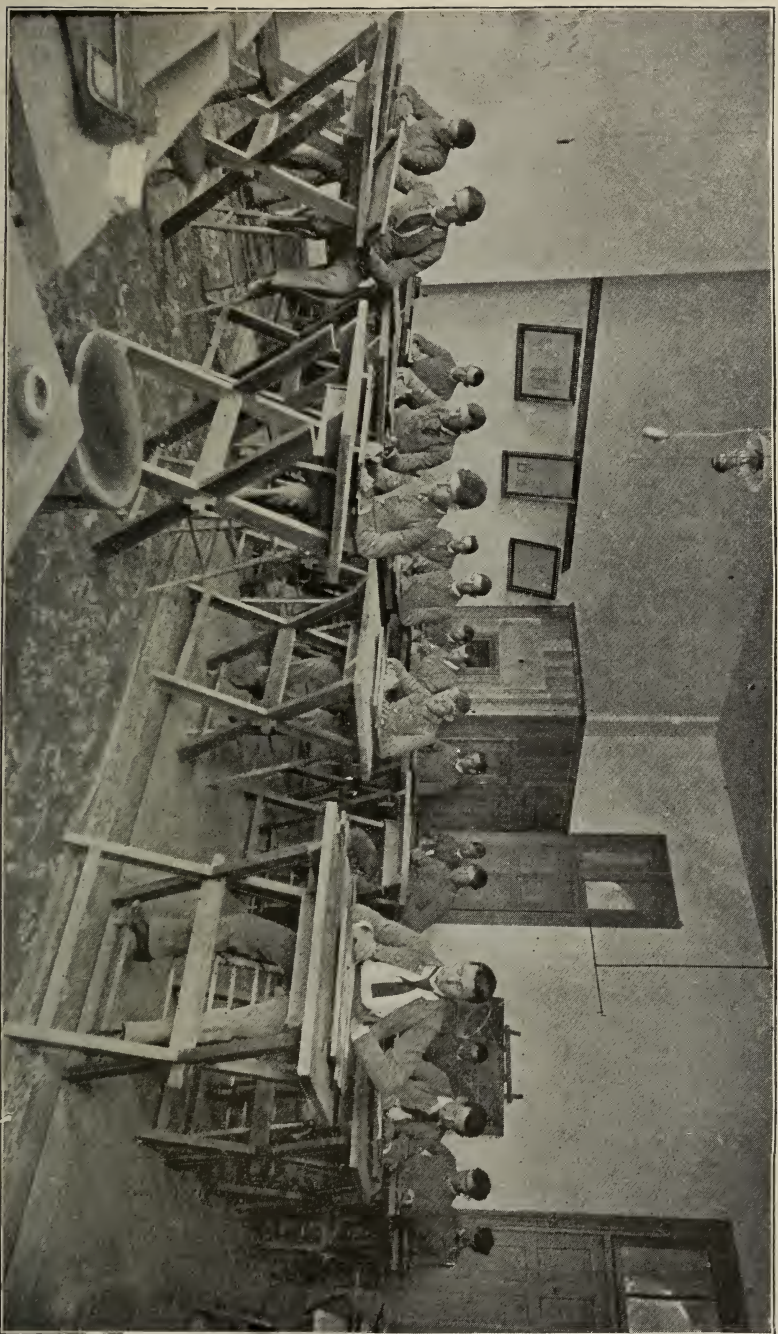
3. A regular student may enter upon an elective course only with the consent of his parent or guardian and of the Faculty, and only at the beginning of a term. He shall receive no credit for work done, during the year in which he makes the change, in any department which he drops on becoming an irregular student.

4. An irregular student shall not be allowed to do more than sixty hours' voluntary work per month under the student labor system.

5. Irregular students shall be subject to military duties and to the Rules and Regulations just as are regular students.

SPECIAL COURSES.

Special courses will not be encouraged, but upon correspondence with the President, such courses may be arranged with the professor or professors under whom instruction is desired; but a student, after having entered a regular course, will not be allowed to change same without permission of the faculty.



DEPARTMENTS OF INSTRUCTION.

DEPARTMENT OF AGRICULTURE.

PROFESSOR CONNELL,
ASSOCIATE PROFESSOR CLAYTON,
ASSISTANT PROFESSOR SOULE.

This department instructs the students of all classes taking the Agricultural Course. The studies are systematically arranged for the purposes of applying many of the scientific principles of Chemistry, Botany, Physiology, and Physics (which are taught by the other departments of this course) to the practical subjects of "Field Crops" and "Livestock Husbandry." A knowledge of these sciences forms the basis of the instruction given in the class room by the Agricultural Department. The study of Physics gives accurate information and offers useful explanations of those primary laws of nature that control light, heat, sound, water, the atmosphere, solids, electricity, etc. A knowledge of these subjects is necessary to a clear understanding of changes in atmospheric temperature, rainfall, frost, evaporation, and other physical phenomena of importance to the farmer. The study of Botany informs the student of scientific names and classification of plants into natural groups, their habit of growth, and treats of the laws that govern the essential conditions of plant growth. The study of Zoology, including the subdivisions, animal anatomy and physiology, proper hygienic conditions, the diagnosis of disease, and a study of the necessary medical or surgical treatment of animals, forms an important division of the student's technical education. The study of Chemistry serves to give the student an intimate knowledge of the composition of plants (and plant food), and of animal bodies (and stock food), and of the laws governing the composition of plant and animal nutrients.

Physical Geography is the first study taught by the Agricultural Department. The distribution of industries and their relationship is considered. This study familiarizes the student with agricultural and other industrial conditions in all parts of the world. The principles of "Stock Breeding" are next considered. This is followed by a study of the recognized "Breeds of Livestock" which have been formed by the appli-

cation of the scientific principles of heredity, variation, etc. This subject is amply illustrated in the pure bred stock owned by the College. From breeds and breeding attention is turned to the subject of supplying animals with necessary "Grasses and Forage Plants." "Dairying" is next taught, and the student is made familiar with the various methods of handling milk in the production of butter and cheese. In the fourth, or graduating year, all of the various styles of farming and stock raising are discussed and studied separately. Instruction is also given in the scientific principles of stock feeding and in irrigation and drainage.

THIRD CLASS.—Having begun the study of Botany, this class undertakes the subject of "Grasses and Forage Plants" in the Agricultural Department. Each of these is considered with reference to habit of growth, methods and cost of seeding, its effect upon the soil, its adaptability to various portions of the State, feeding value, etc. All Texas feed crops, except fibre plants, are included in the study of this subject. It is taught in the spring term in thirty-six lectures, by reference books, and by field work with forage crops.

The principles of "Stock Breeding" are also taught in this class, basing the instruction upon the student's knowledge of animal physiology, with which it is nearly related. Heredity, atavism, variation, selection, and in-breeding, and their practical application to domestic animals are noted. The students are also practiced in the scoring and judging of farm animals, and drilled in their selection, purchase, care, and management by practice in measuring and scoring the live stock. This subject is taught during the winter term.

SECOND CLASS.—The various breeds of horses, cattle, swine, and sheep are carefully studied as to origin, history, development, and leading characteristics of the various classes of domestic animals. Students are trained by practice in judging stock of the different breeds, good specimens of which are found in the large herds owned by the College.

Dairying is given considerable prominence. The second class receives thirty-two lectures upon this subject. The properties and composition of milk, the variations due to breed, feed and fermentation of milk; the creaming, churning, cheese making, testing for fat, and for adulterations; and the subject of bacteriology are all discussed in order. The creamery building is thoroughly fitted with the latest improved machinery and apparatus. Students of the second class use this equipment freely in performing the practical work and in the dairy practice required. The proper care of fresh milk, the operation of hand and power separators and churn,

the care of creamers, and testing for acidity and for butter fat in milk and cream can be most thoroughly learned by combining this work with the theory taught in the class-room. All of the labor of a large machine dairy is performed by students. The aim is to thoroughly fit our students for taking charge of and operating creameries and dairy farms successfully in any portion of the State.

"Irrigation and Drainage" is studied by lectures given in the class-room during the spring term. The advantages of the several methods of irrigation in use are considered, the amount of water necessary for the various crops, the available water supply of all parts of the State are studied, and further time is given to the construction and location of reservoirs, laying out head ditches, construction of flumes, and the cost of raising and applying water under conditions existing in this State. Methods of securing perfect drainage are discussed, and the methods of protecting land from washing rains, terracing farm lands, the construction of open and tile ditches are considered. A reservoir watering fifteen acres of land is in use on the College grounds, affording opportunity for the demonstration of many principles relating to irrigation. Some four miles of tile drain have been laid on the farm.

FIRST CLASS.—Having studied animal anatomy and physiology and the subject of chemistry, the students of the first class are prepared to understand the study of scientific or rational feeding of farm animals—the study of which is begun in the fall term and pursued for two terms in the first class. The laws of animal nutrition and the composition of animal bodies are briefly considered. The individual food stuffs are then closely studied as to composition, digestibility, market value, etc. The student is then advanced to the proper feeding rations for the support of milk cattle, beeves, horses, and hogs. In this manner the economic value of all food stuffs is clearly shown in theory. During the afternoon the practical feeding of farm animals by students serves to more fully acquaint them with this subject. The best results in feeding stock by the various experiment stations of the United States, form a most valuable feature of studies devoted to this subject. Students who complete the study are well qualified to care for and manage stock farms and various feeding enterprises.

The study of "Farm Management" and the various systems of organization of farm work practiced in this State completes the study of the Agricultural Department in the fourth year, or graduating class. Comparisons are made of the different branches of agriculture, rotative and successive cropping, management and economy of farm labor, selection

and care of machinery, and live stock for certain purposes, and general suggestions as to profit and loss in farming.

Practice and Work.—Work is required of each student taking the course in Agriculture. This brings him in close contact with the crops of cotton, corn, grasses, grains, the live stock, and keeps him in sympathy with all industrial enterprises and the studies pursued in the class-room. The feeding of animals for experiment in the production of milk, pork, and beef is often done by students under the close supervision of a College officer. For all work faithfully performed students are paid at a maximum rate of fifteen cents per hour. Careless effort is not paid for. The twenty-four hundred acres in the farm, with one hundred and twenty milk cows (consisting of typical Jerseys and Holsteins and grades), the hundred and fifty beef steers and other cattle, the two hundred head of hogs, the work stock, the improved tools and machinery for all farm work, the mammoth silos for preserving green stock food, offer illustrations of great practical value to the student and to the visitor at the College.

With the above equipment the Agricultural Department supplies all the milk, butter, beef, pork, and vegetables consumed during the year by the corps of students and the families living on College grounds.

In addition to the above regular work and practice provided for in the schedule of studies, the students of the Agricultural Course are permitted and encouraged to work one or two afternoons each week and upon Saturdays. Many students avail themselves of the opportunity to work and earn money to defray a portion of legitimate College expenses, without detriment to their studies.

Agricultural Experiment Station.—The permanent location by the General Government of the Experiment Station for Texas at this College, under the supervision of a Director (who is also the Professor of Agriculture) makes it possible to give students the full benefit of all experiments conducted at the College, as well as permitting a careful study of results of valuable tests conducted elsewhere, by frequent reference to bulletins from other Stations, files of which are kept in the Director's office. A valuable collection of scientific works bearing on all phases of agriculture constitutes the Station library, and is accessible at all times to students of the College.

The officers of this department are at all times pleased to have visitors inspect the work under way and to give such information upon agricultural subjects, by letter or otherwise, as they may be able to furnish.

Home Reading Circles.—Thousands of letters are annually received



from the people of the State by officers of this department, asking for accurate information relating to the personal lines of work in which the writers are interested. These inquiries have prompted the officers of the Agricultural Department to offer their services in conducting or supervising a series of reading circles throughout the State, in communities that may contain five or more persons, of any age, who desire to pursue a systematic course of reading and experiment upon the subjects of (1) Growth of Field Crops, (2) Feeding Farm Animals, (3) Dairying.

It is hoped that some of the officers of this department can arrange to visit classes that may be formed in the above manner, at some season of the year, and give demonstrations of scientific principles, exhibit samples of soils, chemicals, foods, and machinery, and explain thoroughly the more difficult points in the courses suggested.

DEPARTMENT OF CHEMISTRY AND MINERALOGY.

PROFESSOR HARRINGTON.

ASSOCIATE PROFESSOR ADRIANCE.

ASSISTANT PROFESSOR TILSON.

CHEMISTRY.

The subject of Chemistry is introduced by the study of inorganic chemistry, passing into a brief course of organic chemistry. The attention of the students is directed to the historical development of the science, and to the phases of chemical theory as at present understood by chemists.

After the general principles of chemistry are understood the study will be supplemented by practical work in the laboratory. This work begins with the use of the blow-pipe, simple glass working, and fitting up of apparatus, continuing into quantitative analysis, both gravimetric and volumetric.

Agricultural students will spend their time mainly in agricultural analysis, consisting of examination of soils, fertilizers, manures, feed stuffs, marls, ashes, etc.; but will be given exercises in manufacturing chemistry also.

MINERALOGY AND METALLURGY.

The course in Mineralogy will be made as thorough as time will allow. Work in this department begins in the second class, during which time much attention is given to the systematic examination of minerals. The

study is continued in connection with geology and metallurgy, special attention being given to the economic aspect of geology and to the metallurgy of iron and copper. Assaying, as practiced in connection with mines and metallurgy, is taught to students of the B. M. E. course.

It is the object of the Department of Chemistry and Mineralogy to make the course of study thorough and practical, and as far as possible to equip students with information that will be at once available on leaving College.

The laboratory is well supplied with chemicals, minerals, glass, porcelain and platinum ware, gas holders and generators, filter pumps, with assay furnaces, muffles, crucibles, etc.; combustion furnaces, arrangement for Kjeldahl's nitrogen determinations; Hempel's and Elliott's gas apparatus; a Soliel-Laurent and Schmidt and Hensch saccharimeters, colorimeter, reflecting goniometer, Crouch's best binocular microscope, with fittings, etc. In short, the laboratory is well supplied with the latest improved apparatus needed in well established methods of analytical work and original investigation. Our balance room contains analytical balances of the finest quality.

The department is supplied with books and current chemical literature, to which the students have free access.

DEPARTMENT OF CIVIL ENGINEERING AND PHYSICS.

PROFESSOR NAGLE.

ASSISTANT PROFESSOR SPENCE.

A. CIVIL ENGINEERING.

As shown in the course of study the Mechanical and Civil Engineering courses are identical up to the beginning of the second term of the third class (second year); the student electing Civil Engineering now takes up studies bearing more directly upon his future work.

THIRD CLASS.—The subject of road making and maintenance extends through the spring term for two hours per week.

SECOND CLASS.—Plane surveying is taken for three hours per week by the members of all courses, and in addition to the class-room instruction five hours per week of field practice in the use of the compass, transit, and wye level is given. Each student is required to submit a plat and profile compiled from surveys made by himself. This subject extends through one term.

Civil Engineering students take a series of lectures on topographical

surveying, and are taught the use of both field and office instruments and methods. In the reduction of their notes they make use of Colby's topographical protractor and Colby's topographical slide rule, as well as Winslow's tables and Johnson's reduction diagram. In the spring term they begin the study of the subject of railroad engineering, and have practice in tracing curves on the ground, and in the solution of some of the more common problems met with by the engineer.

FIRST CLASS.—Railroad engineering is continued, and the study of the projection, location, and setting of slope stakes on a line is undertaken in the field, and the quantities afterwards computed.

A course of two hours per week in sanitary engineering is taken for one term, in which the best methods of house drainage, sewerage, and sewage disposal are considered.

The mechanics of the materials of engineering and the computation of the stresses in roofs and bridges are next taken up and many numerical problems assigned. These subjects extend through two terms.

The subject of hydraulics extends through one term, four hours per week.

In the spring term a course in bridge and structural designing is given, in which the design of some simple roof truss or non-continuous bridge truss is undertaken, each member of the class being assigned a special truss, upon which he is required to spend about five hours per week in the drawing room, making detail and shop drawings, showing the dimensions of main members and connections, together with a stress sheet for the structure.

Text-books: Roads, Streets and Pavements, *Gillmore*; Surveying, *Davies*, *Hodgman*, *Winslow*; Field Engineer, *Shunk*; Sewers and Drains, *Adams*; Sewage Disposal, *Corfield*; Hydraulics, *Merriman*; Roofs and Bridges, Part I, *Merriman*; Roofs and Bridges, Part II, *Merriman and Jacoby*; Mechanics of Materials, *Merriman*.

GRADUATE WORK.—Young men desiring to become successful professional engineers will find it advisable to continue their studies after receiving their first degree. Under the head of "Graduate Studies" are outlined some of the branches in which advanced work will be given—the work assigned being adapted, in so far as is practicable, to the needs of each student. Designing, preparation of shop drawings for the design, the study of projects and review of existing structures will make a feature of the course. A large part of the time will be devoted to original design and investigation.

B. PHYSICS.

THIRD CLASS.—The entire third class, studying the general properties of matter, mechanics, pneumatics, hydrostatics, acoustics, heat and optics. Agricultural students take a short course in electricity and magnetism, while the Mechanical and Civil Engineering students take a more extended course in the same subject. The work of the former covers two terms, while that of the latter extends through the entire session.

Text Books: Elementary Physics, *Carhart and Chute*; Electricity and Magnetism, *Thompson*.

EQUIPMENT.

The department is supplied with an excellent assortment of engineering instruments, including the following: One transit with Gurley's solar attachment; one railroad transit; one surveyor's transit; four engineer's Y levels; one drainage level; one Locke's hand level; one solar compass; four other compasses; one plane table; one planimeter; one odometer; one surveyor's cross; one reflecting prism for setting off right angles; one Thatcher calculating instrument; one Colby typographical protractor; one Colby slide rule for stadia reductions; and an abundant supply of tapes, chains, pins, flag poles, leveling rods, stadia rods, etc. The department owns two fine Riehle Bros. testing machines—one of one thousand pounds capacity for cement and mortars, and the other of twenty thousand pounds capacity, arranged for tension, compression and cross-breaking; also several large sized models of various types of trusses, and photographs and blue prints, contributed by the King Bridge Company and others.

The supply of physical instruments is fully sufficient for illustrating and verifying the laws enunciated in the text-books studied.

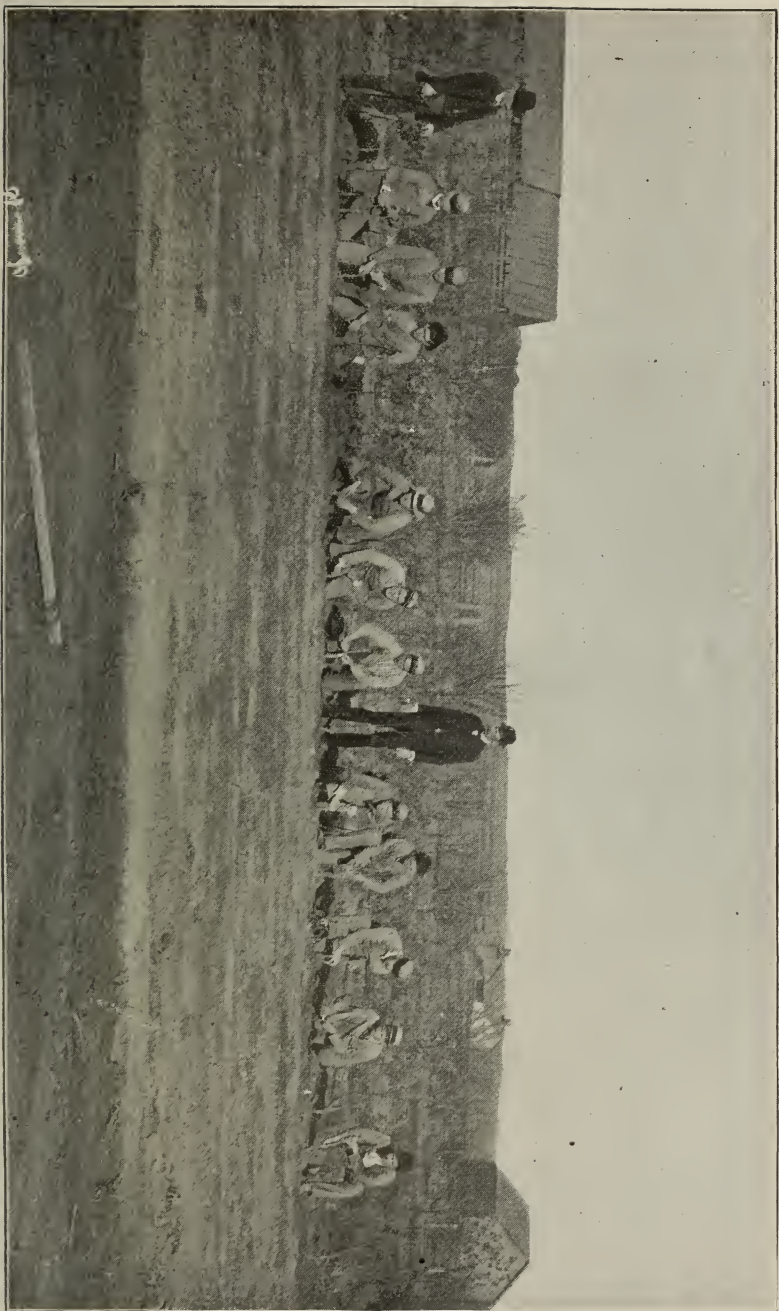
The department is supplied with a well assorted library of standard works on engineering and physics, as well as the more prominent periodicals; this is open to the student.

DEPARTMENT OF DRAWING.

PROFESSOR GIESECKE.

ASSISTANT PROFESSOR SPENCE.

The following is an outline of the instruction given in this department. The time devoted to each subject is shown above, under course of study.



PRACTICE IN BUDDING IN THE NURSERY.

FOURTH CLASS—*Free-hand Drawing*: Thompson's Primary and Advanced Free-hand Drawing Books, Nos. 1, 3 and 5.

Penmanship: American system of vertical writing.

Book-keeping: Bryant and Stratton's.

THIRD CLASS—*Free-hand Drawing*: Thompson's Advanced Free-hand Drawing Books No. 5 or No. 7, and Model Object Book No. 1.

Mechanical Drawing: Plane figures, geometrical problems, lettering and orthographic projections. (Anthony's Mechanical Drawing).

SECOND CLASS—*Descriptive Geometry*: Daily recitation (Faunce's Descriptive Geometry).

Mechanical Drawing: Practical problems in descriptive geometry; working drawings (detail and general) of machinery; tracing and blue printing.

Kinematic Drawing: A series of problems illustrating good practice.

FIRST CLASS—*Mechanical Drawing*: Working drawings of machinery, bridges or buildings at the student's option.

Machine Design: Recitations (Low and Bevis Manual of Machine Drawing and Design, supplemented by explanatory lectures) and practical exercises in the drawing room.

Perspective: Thompson's Mechanical Drawing Books Nos. 4 and 5. A perspective drawing of a building or some other structure.

EQUIPMENT.—The department is equipped with a good set of skeleton and solid models and plaster casts for free-hand drawing, a complete set of Schroeder's models for descriptive geometry, a dark-room and blue-printing outfit, a number of technical reference books, and all necessary drawing boards, instruments, triangles, scales, and squares for the student's use.

DEPARTMENT OF ENGLISH AND HISTORY.

PROFESSOR HUTSON.

ASSOCIATE PROFESSOR PHILPOTT.

ASSISTANT PROFESSOR BANKS.

In this department the course extends through the whole college life. Its aim is to make accurate and well-informed scholars. In the lower classes the subjects are taught in parallel lines of progress, and are made to throw light on each other.

I. ENGLISH LANGUAGE AND LITERATURE.

First Year: In the class of this year there is an extended drill in the grammar, in spelling, punctuation, reading, and composition. The class reads from time to time some famous literary work of simple and vivid narration.

Text-books: *Patterson's* Elements of Grammar, *Patterson's* Advanced Grammar, *Chittenden's* Elements of English Composition, *Macaulay's* Lays of Ancient Rome, select poems of Scott.

Second Year: Rhetoric is studied during the whole of this year.

Text-books: *Genung's* Rhetoric, and essays of Macaulay.

Third Year: The class of this year studies the higher and idiomatic constructions of English and the history of the language. Essays, forensic disputations, and original orations constitute part of the work of the year.

Text-books: *Meiklejohn's* English Language and Literature. Select poems and tales.

Fourth Year: This year is devoted to a course of lectures on English literature.

Text-books: Select plays from Shakespeare.

For reference: The Century Dictionary, *Lounsbury's* History of the English Language, *Taine's* English Literature, *Saintsbury's* Elizabethan Literature, *Morley's* English Literature, *Mrs. Oliphant's* Literature of the Georges.

II. HISTORY.

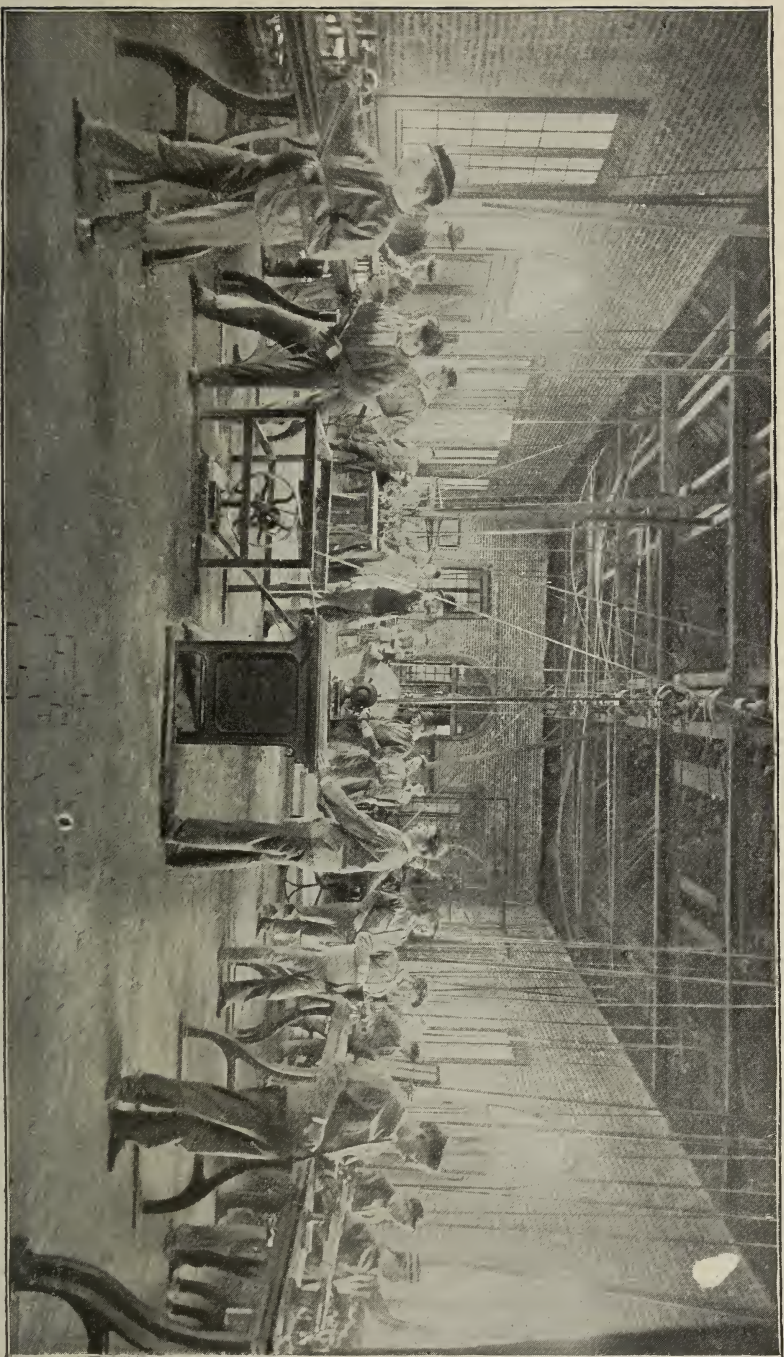
First Year: The class of this year studies the History of Texas and the History of the United States. Good wall maps furnish a valuable help in these studies.

Text-books: *Pennybacker's* Texas, *Lee's* United States.

Second Year: The study of general history occupies the class of this year. Debates and compositions on historical subjects are frequently assigned as part of the work. The value of collateral reading is thus impressed upon the student.

Text-books: *Myers' General History*, with other works for collateral reading.

Third Year: This year is devoted to the History of England, especial stress being laid on the development of the English Constitution, the progress of civilization, and the close connection between the condition of the people and the state of the literature.



MACHINE SHOP.

Text-book: *Arabella Buckley's* History of England.

Fourth Year: The study of Greek and Roman History on what is called the "seminary plan," is the work of this year. The class room has excellent maps of the great countries of antiquity.

Text-book: *Sheldon's* Greece and Rome.

For reference: Histories of *Green, Gibbon, Hallam, Freeman, Stubbs, Froude, Guizot, Ranke, Motley, Mommsen, Percy Greg.*

The College library is emphatically the tool house of this department. Students are urged and encouraged in every way to make large use of it.

Candidates for admission into the fourth class are examined on spelling, grammar, geography and reading. Applicants for admission into the higher classes are examined on the studies already passed over by the classes below. See pages 24-26.

DEPARTMENT OF HORTICULTURE, BOTANY, AND ENTOMOLOGY.

PROFESSOR PRICE.

ASSISTANT PROFESSOR NESS.

The design of the course in Horticulture is to combine with the technical work of the department such instruction in related sciences and general education as will best prepare the student to meet the greatest demands of the horticultural industry. Throughout the course instruction is given in subjects of general importance not enumerated below.

The existence of the vegetable kingdom being necessary to the maintenance and support of the animal kingdom, it is a special object all through the teaching in this department to make the student familiar with the laws which govern plant growth and propagation.

For the first two years the courses in Horticulture and Agriculture are the same.

ENTOMOLOGY.

STRUCTURAL — *Third Year, Fall Term:* External anatomy and comparative morphology of the orders and more important families. Practice given in laboratory in dissecting and classifying.

ECONOMIC — *Fourth Year, Spring Term:* Injurious insects and the methods of preventing their depredations. Spraying machinery, insecticides, and their application.

Text-book: Entomology for Beginners, *Packard.*

Reference books: Insecta, *Hyatt and Arms*; *Comstock's* Manual of Entomology; Insects Injurious to Fruits, *Saunders*.

BOTANY.

ORGANOGRAPHY—*Second Year, Fall Term*: Gross anatomy, the study of the organs with which plants do their work; as roots, stem, leaves, and flowers. Their various forms and modifications.

SYSTEMATIC—*Second Year, Spring Term*: Nomenclature, classification, description of flowering plants, and the art of collecting, naming, mounting, and preserving them. An herbarium may be required.

HISTOLOGICAL—*Third Year, Fall Term*: Advanced work in structural botany; examining the minute structure of the root, stem, leaf, flowers, and fruit, with compound microscope.

PHYSIOLOGICAL—*Third Year, Fall Term*: Physiology of plants in connection with microscopic work. The student prepares his own slides; making notes, drawings, and employing reagents. In the latter part of the term the student begins the study of cryptograms.

Text-books: *Bastin's* College Botany; Histology of Plants, *Vines*; *Wood's* New Class Book of Botany.

Reference books: *Chapman's* Southern Flora; Text Book of Botany, *Bessy*; *Sach's* Botany; Physiology of Plants, *Vines*; *Gray's* New Class of Botany; Flora of Western Texas, *Coulter*.

GRASSES AND FORAGE PLANTS—*Spring Term, Fourth Year*: Analysis of important grasses and forage plants. Their uses, habits and cultivation.

Reference books: Grasses of North America, *Beal*; Farmer's Book of Grasses and Forage Plants, *Phares*; *Vasey's* Bulletins on Grasses.

MYCOLOGY—*Fourth Year, Fall and Spring Terms*: Systematic study of economic fungi in the Fall Term, and in the Spring Term the student makes culture on media, infects living plants, and prepares and applies fungicides. An herbarium of fungi is required. The subject is taught by lectures together with laboratory practice.

Reference books: Comparative Morphology and Biology of Fungi, *De Bary*; *Plowright's* Monograph of Uredineæ and Ustilagineæ; *Burrill's* Monograph of Uredineæ and Erysipheæ; United States Government and Experiment Station Reports; North American Pyrenomycetes, *Ellis and Everhart*.

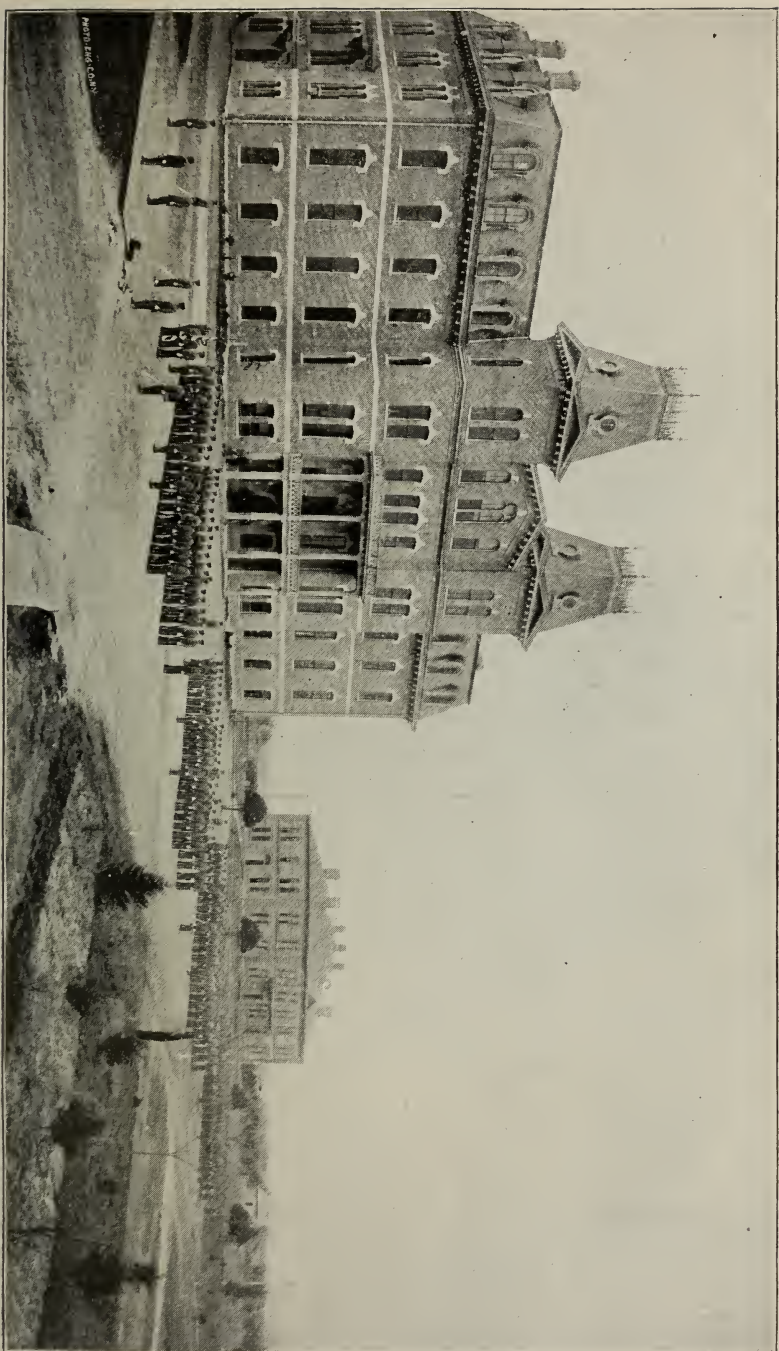


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BATTALION INSPECTION, "3

HORTICULTURE.

FRUIT CULTURE—*Second Year, Fall Term*: Study of growth, culture, and propagation of the apple, pear, peach, plum, apricot, cherry, etc. Planting and managing orchards.

Text-book: *Thomas' American Fruit Culturist*.

Reference books: *Barry's Fruit Garden*; *Downing's Fruit and Fruit Trees of America*.

OLERICULTURE—*Second Year, Spring Term*: Growth, culture, preservation and marketing vegetables. Practice in the gardens and experimental plats.

Text-book: *Truck Farming for the South, Oemler*.

Reference book: *The Vegetable Garden, Vilmorin-Andrieux*.

SMALL FRUIT CULTURE—*Third Year, Spring Term*: Special lectures upon the culture and marketing of strawberries, raspberries, blackberries, dewberries, etc.

Reference book: *Small Fruit Culture, Fuller*.

VITICULTURE—*Fourth Year, Fall Term*: Culture, growth, and propagation of the grape and the management of vineyards.

Text-book: *American Grape Growing and Wine Making, Husmann*.

FORESTRY—*Fourth Year, Winter Term*: The management and planting of woodlands. Consideration of the role they play in the economy of nature.

Text-book: *Elements of Forestry, Hough*.

Reference book: *North American Sylva, Michaux*.

LANDSCAPE GARDENING—*Fourth Year, Winter Term*: Designing, planning, and management of lawns. The art of beautifying American homes.

Text-book: *Ornamental Gardening, Long*.

PLANT BREEDING—*Fourth Year, Spring Term*: How to cross fertilize plants and originate new varieties. How to improve old varieties. Darwinism and its relation to horticulture.

Text-book: *Plant Breeding, Bailey*.

Reference book: *Origin of Species, Darwin*.

SPRAYING—*Fourth Year, Spring Term*: How to prepare fungicides and apply them to plants to prevent injury by fungi. Spraying machinery.

Text-book: *The Spraying of Plants, Lodeman*.

EQUIPMENT.

The department is fairly well equipped with compound microscopes. There are 130 volumes in the library which contain information bearing upon the subjects taught. The student has free access to these. The department has a complete file of all the bulletins issued by the different experiment stations of the United States on the subjects of horticulture, botany, and entomology.

The herbarium contains a fair collection of a large part of the flora of the State, together with 500 species of fungi, which serve to illustrate the work in botany.

The care of the orchard and vineyards, and the experiments with vegetables afford ample practice in field work.

DEPARTMENT OF LANGUAGES.

PROFESSOR BITTLE.

It is the object of the department to furnish students of the Horticultural and Civil Engineering courses, and others who may desire it, with a practical knowledge of German, Latin, French, or Spanish, such as will benefit them in the prosecution of a scientific career.

To this end, the text books used and the method of imparting instruction are practical. Latin is taught as an essential to a thorough understanding of English; German and French, because neither the specialist nor the general student can afford to be ignorant of those literatures; Spanish, in view of the rapidly growing intercourse between us and the Latin Republics south of us; all of them, because systematology and scientific nomenclature are undefinable without a knowledge of foreign languages.

Students coming to us, therefore, from the high schools of the State find here the opportunity to continue their linguistic studies by the side of Agricultural and Mechanical branches, to which they lend effective aid.

TEXT-BOOKS.

In Spanish, De Tornos' and Ybarra's Grammars, with references to Knapp, and selections in reading from various sources.

In German, Joynes-Meissner's and Sheldon's Grammars, with selections in reading, suited to the student's advancement.



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VETERINARY LABORATORY.

In French, Whitney's Grammar is used, and readings, mainly of a scientific character, are selected.

In Latin, Chase and Stuart's Grammars, with reference to more systematic courses, and readings from Cæsar, Virgil, Cicero, etc., as the exigencies of the course permit.

DEPARTMENT OF MATHEMATICS.

PROFESSOR PURYEAR.

ASSOCIATE PROFESSOR SMITH.

ADJUNCT PROFESSOR BANKS.

Instruction in this department is given by the use of approved text-books, supplemented by oral explanations and lectures. The course is designed to be thorough rather than extensive. The student's knowledge of the subject studied is tested daily at the blackboard, and he will be required to apply the principles taught to the solutions of practical problems. Written solutions of selected problems will be required at stated intervals. For specimen entrance examinations, see pages 24-26.

The subjects pursued are as follows:

First year—Arithmetic, Elementary Algebra.

Second Year—Algebra, through quadratic equations, Plane Geometry.

Third year—Advanced Algebra, Solid Geometry, Trigonometry.

Fourth year—Analytical Geometry, Mechanics, Calculus.

For instruction in geometry the department is supplied with a full set of Schroeder's models, imported for this institution.

Text books: Arithmetic, *Greenleaf*; Algebra, *Wells*; Geometry, *Wentworth*; Trigonometry, *Wells*; Analytical Geometry, *Nichols*; Mechanics, *Wood*; Calculus, *Peck*.

DEPARTMENT OF MECHANICAL ENGINEERING.

PROFESSOR WHITLOCK.

ASSISTANT PROFESSOR BRAY.

INSTRUCTOR, MR. LEWIS.

This department is intended so to combine theory and practice that, after deriving a theoretical knowledge of a subject from the text-books of standard writers, the student may go into the shop and apply that knowledge in a thoroughly practical manner. With this theoretical preparation the mind grasps the salient points and avoids the difficulties

of the more practical part of the work. The work is carried on by aid of practice in the shops and drawing room, and by text-books and lectures.

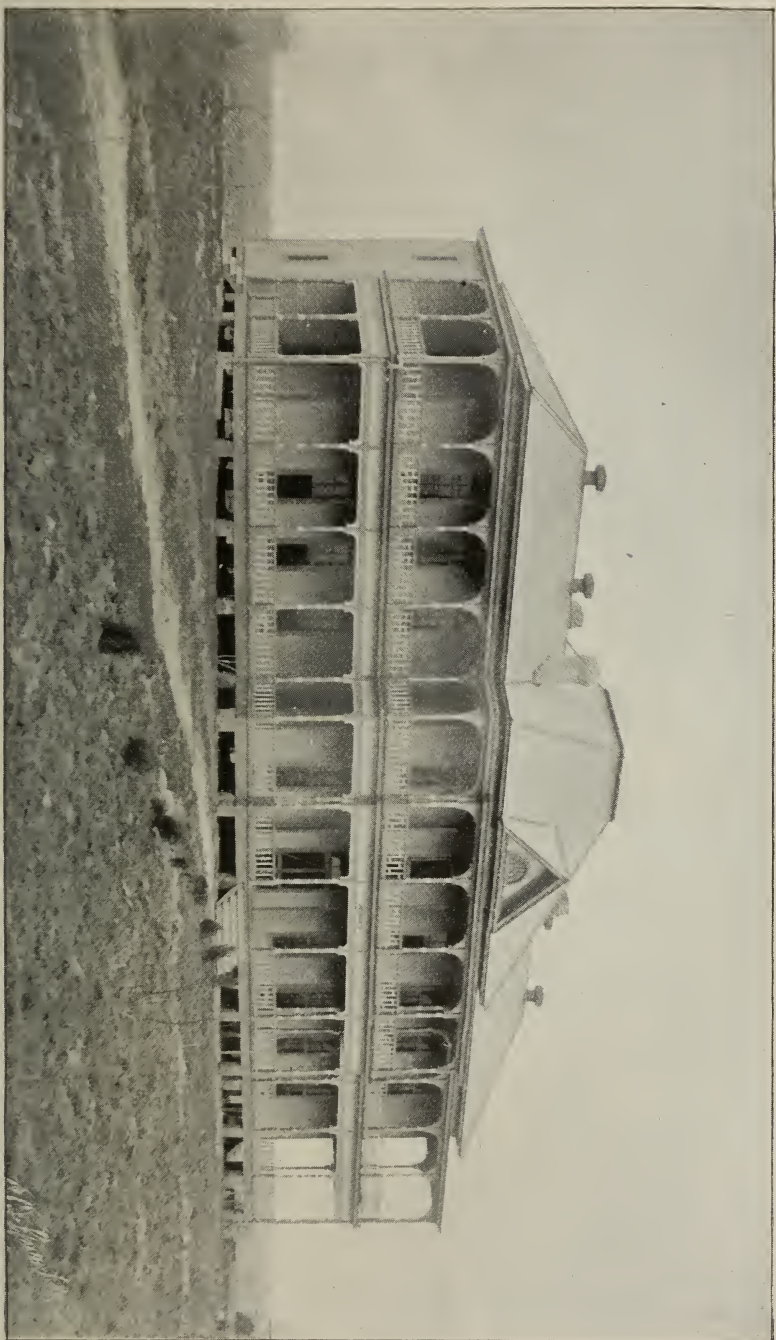
First the machinery of transmission is taken up and discussed, and especial attention paid to shafting belts, speed pulleys, gear wheels, and kindred subjects. These lead the way to the higher forms of mechanism, and later the steam engine in its general principles and various forms is studied and discussed.

As stated above, the work in the class room is supplemented in every possible way by showing the student the practical application of these principles in the machinery used at the College.

SHOPS AND SHOP WORK.

The Machine Shop is a one-story brick building, 80x35 feet, and is joined at one end by the Blacksmith Shop, which is also brick, 20x35 feet. At the other end it is in connection with the Carpenter Shop, and above the latter are class rooms, and model room fitted up for drawing and designing. This two-story building is also of brick, and was planned and built especially for this department. In beginning the practical work the student enters the Carpenter Shop, which is equipped with sixty sets of tools and benches. Here each student has his own set of tools when at work, and is held responsible for their condition. These tools are those which are in common use among carpenters, such as hammer, cross-cut and panel saws, square, mallet, chisels, gauge, planes, and dividers, and must be kept in order by the student using them. Thus each student is taught in the beginning of his work not only the use of the tools, but also the importance of keeping them in good order, and in their proper places. The work in this department begins with the simplest exercises, which consist mainly in making those joints which are in common use. Each of these exercises depends more or less on those preceding it, and becomes more and more difficult as it nears the end, thus carrying the student from "squaring" a piece of wood to the construction of a small bridge truss. The work is carried on from drawings, similar to those found in any of our shops, and thus the student learns not only to read mechanical drawings, but to construct the article wanted with only such drawings for a guide.

Having finished the woodwork and acquired a knowledge of edged tools, the student is transferred to the Blacksmith Shop. Here he finds the same ideas of responsibility and good order. There are thirteen forges, supplied with a blast from a power blower, which is run by an



engine built and set up by the graduating class of 1888. Here, as in the Carpenter Shop, the first exercises are very simple, becoming more and more difficult as they proceed, until, at the end, the student has made welds of different kinds, a chain with a hook and swivel, and has forged out and tempered several tools, such as engine lathe tools, and cold chisels. After this a move is made into the Machine Shop, where are found sixteen wood turning lathes. On these he receives instruction in both inside and outside turning, everything being made according to drawings furnished from the tool room. Then follows instruction in the use of iron working machinery, for which there is the following equipment: Six engine lathes, planer, drill, shaper, and milling machine. With these machine tools are taught the principles of cutting and shaping wrought and cast iron, steel, and brass. Throughout the course the student receives systematic instruction, and the work is so graded as to bring into use as far as possible those principles which have been taught him in the class room. The instruction throughout the course is made as practical as possible, and at the same time is of such a nature as to call for intelligent thought in connection with the manual labor. Special attention is called to the fact that all work is made, as far as possible, from drawings similar to those which the student will be called upon to use in any of our first-class machine shops, thus compelling him to think for himself and avoid becoming a mere automaton. All tools are furnished by the College with the exception of a two-foot rule.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS.

PROFESSOR BARTLETT.

The instruction in this department is in conformity with the act of Congress, which, in endowing this and similar institutions, stipulates that military tactics shall be taught.

An officer of the regular army is detailed by direction of the President of the United States to carry out this requirement of the act in question, and the necessary arms, accoutrements, and ammunition are furnished by the general government without cost to the College.

During the fall and spring terms practical military instruction is given in infantry and artillery drills, rifle firing, and the duties of guards and sentinels. During the winter term all military exercises are suspended except the necessary guard. A course of lectures is delivered to the first class, embracing the duties of guards and sentinels, military signaling

and engineering, military law, the preparation of the usual returns and reports pertaining to a company, the organization and administration of the United States Army, and the elements of the art and science of war.

During this term the second class receives instruction in the section room in infantry tactics.

While the instruction in this department is as thorough as practicable in the limited time allowed, in liberal compliance with the requirements of the act of Congress endowing the College, it is not proposed to graduate soldiers. Practical military exercises are held at such hours as not to conflict with academic duties of students. The physical training of such exercises has the effect of straightening and strengthening the students, giving them an erect carriage and graceful bearing.

The military system is the means of enforcing discipline and securing regularity in the performance of academic duties, and tends to inculcate in the students that habit of truthfulness and manliness of character which characterizes young men as gentlemen.

DEPARTMENT OF VETERINARY SCIENCE.

PROFESSOR FRANCIS.

The design of the course in Veterinary Science is two-fold. First, to acquaint the agricultural students with the diseases of our domestic animals; and second, to train their minds in sound and systematic methods of reasoning from effect to cause. To accomplish this the instruction begins with the study of comparative physiology. This is presented by lectures, recitations, and demonstrations on the living subject. Comparative anatomy is treated in a similar manner. The horse is taken as the type, and dissections are made during the winter months.

This is presented in such a manner as not only to acquaint the student with the structure of the horse, but to teach him *how* to study organic bodies. Veterinary medicine and surgery are presented by systematic lectures on the diseases of animals, and their treatment.

Materia Medica and Therapeutics are given considerable attention.

These lectures are illustrated by a discussion of the drugs used by the Veterinarian, and the methods of compounding and administering the same. Laboratory work consists in studying the microscopic structure of the tissues, the methods of hardening, sectioning, staining, and mounting. Each student is provided with a first class microscope, ranging from 50 to 400 diameters, and all necessary requisites for prosecut-

ing the work. The department is equipped with Azoux's model of the horse, complete, and several special pieces of the same material. We have also the skeleton of man, horse, pig, goat, and various other animals, mounted. There are also a considerable number of skulls and other bones, both healthy and diseased. There is also quite a collection of parasites, tumors, monstrosities, dissected preparations, and surgical instruments belonging to the department. The library of the department is quite respectable, and contains all the standard works in English, and some in other languages. The total value of the equipment is about \$3000.

GENERAL INFORMATION.

LOCATION.

The College is situated at College Station, in the county of Brazos, five miles south of Bryan and ninety-five miles northwest of Houston. The Houston and Texas Central Railroad runs through the grounds, daily trains stopping at the Station, about 800 yards from the main building. Students and visitors are advised to take trains arriving here in the day time.

POSTOFFICE.

This is College Station, not Bryan. It is important that correspondents should observe this, since letters are often delayed by going to the latter place. College Station is a money order office.

MAIN BUILDING.

The main building stands on the highest point of the grounds. It is four stories high, made of brick, with mansard roof and towers. The rooms are all of high pitch and well ventilated. There are forty-five rooms in the building. On the fourth story nearly half the space is occupied by the large room assigned to the drawing department. Two society halls, the armory, and one small room are also on this floor. On the third floor are the section rooms of the departments of English, languages, and horticulture and botany, the library and reading room, and

eight rooms occupied by officers of the College. On the second floor are the President's office, the business office, the book store, the chemical laboratory and section room, the museum, the agricultural section room, English section room, the office of the Director of the Agricultural Experiment Station, and the janitor's room. On the first floor are chemical private laboratory, furnace room, section room, and instrument room of the Department of Civil Engineering and Physics, store room, dark room, mathematical section room, guard room, commandant's office, and section room and laboratory of the Department of Veterinary Science. There are broad halls running through each story at right angles to each other, and two sets of stairways, one in the middle, the other at the end of the building.

SHOPS.

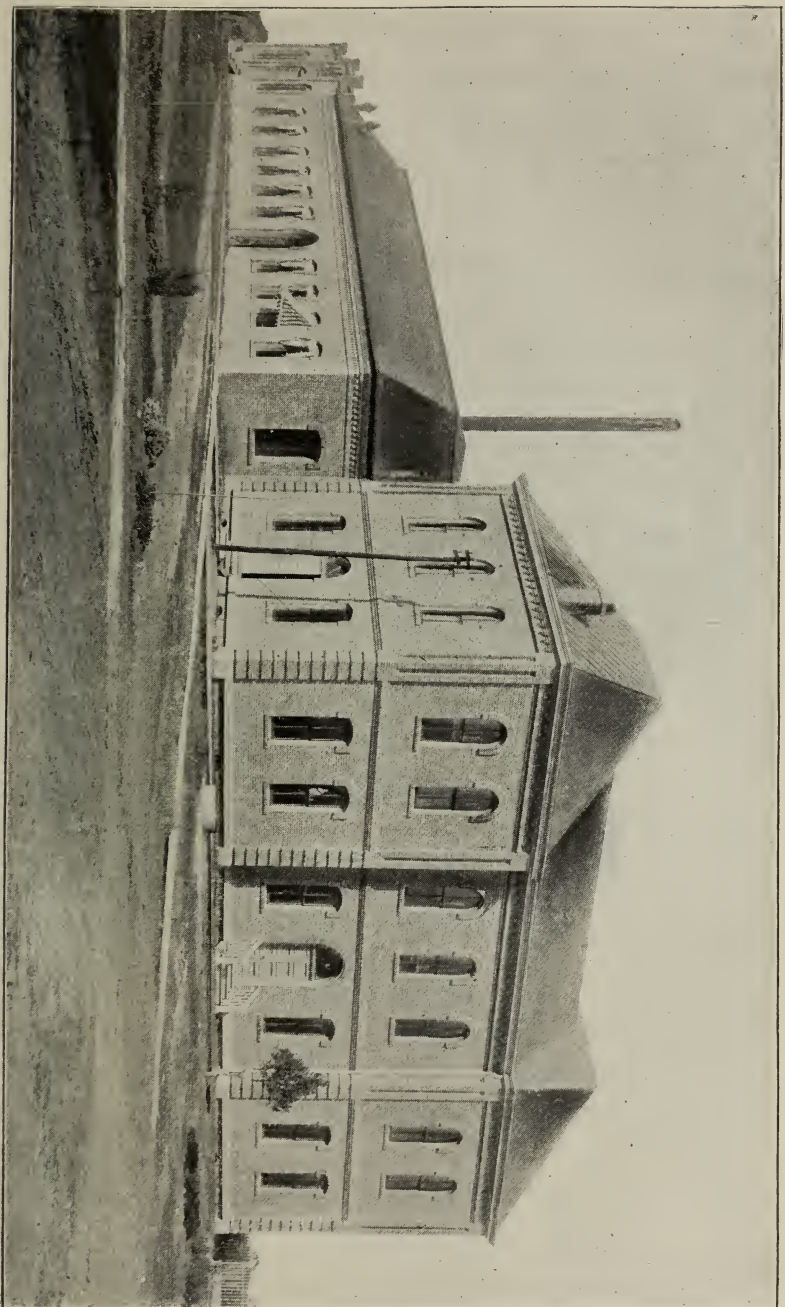
North of the main building are found those buildings occupied by the Department of Mechanical Engineering, which consists practically of one building, although made in two distinct parts. First, the one containing the carpenter shop, class rooms and model room; second, that containing the machine and blacksmith shops and the boiler-room. The carpenter shop is fitted up with benches and tools for the accommodation of sixty pupils, while above it, on the second floor, are two class rooms and a model and designing room. Back of this are the other shops mentioned, in a building of one story. Power for the machine shop is furnished by an eighteen-horse power Straight Line Engine, and that for the blacksmith shop by a five-horse power engine, which was built and set up by the graduating class of 1888. The machine shop is equipped with sixteen wood turning lathes, circular, band, and jig saws, emory wheel stand, six engine lathes, planer, shaper, drill, and milling machine. The blacksmith shop has thirteen forges with necessary tools, power blast, and exhaust fan.

PFEUFFER HALL.

This building, erected in 1887, is for a dormitory, and has capacity to accommodate seventy-five students. It is named in honor of Hon. George Pfeuffer, a former President of the Board of Directors.

AUSTIN HALL.

This is a dormitory erected in 1888, and has capacity to accommodate seventy-five students.



MECHANICAL ENGINEERING BUILDING.

ROSS HALL.

Is another and more commodious dormitory, three stories high, with forty-one rooms, erected in 1892, and has accommodations for eighty-two students.

INFIRMARY.

A large and comfortable building has been erected as an infirmary and surgeon's residence.

The surgeon will give his attention to all students without charge other than the regular medical fee of five dollars paid by each student upon entrance.

CREAMERY.

The creamery has been in successful operation since 1888: It is in a substantial building, supplied with a complete outfit of the latest improved apparatus for making butter. The machinery is driven by a six-horse power engine. There is a well made building, supplied with all necessary apparatus for manufacture of cheese. Practice in both butter and cheese making forms part of the agricultural course.

ASSEMBLY HALL.

This building has been completed and furnished with neat opera chairs. It is a two-story brick building, stuccoed with Portland cement; has main floor and gallery. It is an ornament to the grounds.

FARM BUILDINGS.

These are situated several hundred yards in the rear of the main building. They consist of two large barns, a milking shed, and a pig-gery. One of the barns is new, and is fitted with stalls for the thoroughbred cattle, and the storage rooms for implements and food.

There are connected with one of the barns four large silos owned by the Agricultural Experiment Station, and students will have the advantage of practical instruction in the construction of silos and the best methods of preparing ensilage.

RECENT IMPROVEMENTS.

Recent additions comprise a laundry, with full capacity to meet the demands of the College; an ice plant, which manufactures three tons of ice daily; a natatorium, or system of bath-rooms, with elegant modern appliances, including swimming pool supplied with pure white sulphur water from the artesian well at a temperature of ninety-two degrees (this temperature may be raised to any degree by heating appliances in the building); the water pressure from a standpipe supplies the grounds and buildings through a system of mains, and furnishes ample water for irrigation and fire protection; a fire-proof artillery shed, for protection of two three-inch breech-loading rifled cannon manufactured by the United States government for the College; an electric light plant, of full capacity for lighting grounds and buildings and affording power for electric fans for the Mess Hall.

PERMANENT FUND.

In November, 1871, the Legislature formally accepted from Congress the gift of one hundred and eighty thousand acres of public land for the endowment of an agricultural and mechanical college. This land was sold for \$174,000, which sum was invested in 7 per cent State bonds. As under the Act of Congress neither the principal nor interest of this money could be used for other purposes than the payment of officers' salaries, at the time of the opening of the College there was an addition to the fund from accumulated interest of \$35,000. This was invested in 6 per cent bonds of the State, thus furnishing an annual income of \$14,280.

LANDS.

The county of Brazos donated to the College two thousand four hundred and sixteen acres of land lying on each side of the Houston and Texas Central Railroad, five miles from Bryan and ninety-five from Houston.

GROUNDS, FARM, AND GARDEN.

The garden, orchard, barn yards, and campus are included in the enclosure to the east of the Station. The campus, which consists of some twenty-five acres of lawn, shrubbery, and flowers, surrounds the College buildings. Roses bloom in great profusion and variety on the campus nearly every month in the year.

The orchard, vineyard, nursery, and garden are located north and east of main College building. About thirty-five acres are devoted to this work. The object of this work is two-fold. First, to test the numerous varieties and methods as adapted to this soil and climate; second, to give object lessons to students, and thus serve to illustrate the lecture room work in teaching. The peach orchard of 187 varieties is now in full bearing. The new vineyard of 205 varieties and the blackberry and dewberry garden of 25 varieties are bearing their first fruits. In the nursery the students are taught various methods of propagating different fruits. Peach and pear trees, which the students propagate by budding and grafting, are being set each year in permanent orchards, northwest of main building.

The farm comprises about 250 acres, not including pasture lands owned by the College. This is kept in a high state of cultivation by use of the most improved machinery, crop rotation, and irrigation. On the west side of the railroad two pastures of 800 acres each are under fence. The College owns herds of registered cattle, consisting of Holsteins, Galloways, and Jerseys, besides a number of high grade cows, which supply the College with all necessary milk and butter. The swine include many pure bred Essex of best quality. Beef, pork, milk, butter, and vegetables are supplied the College by the farm.

LIBRARY AND READING ROOM.

A valuable library and reading room have been provided for the use of the students, and additions will be annually made.

The library now comprises standard works of history, biography, agriculture, mechanics, engineering, mathematics, natural science, law, and political economy, mental and moral philosophy, poetry, general literature, and reference.

Gifts of books and magazines will be thankfully received. Back numbers of literary and scientific periodicals will be especially useful in completing files.

LIST OF PERIODICALS AND PAPERS IN THE READING ROOM.

The following papers have been contributed to the reading room by the publishers, excepting those marked with an (*):

AGRICULTURAL.

Acker und Gartenbau Zeitung, Milwaukee, Wis.
 *American Gardening, New York.
 Bulletin Seances de la Societé d'Agriculture, Paris.
 Bulletin Ministere De L'Agriculture, Paris.
 Farm and Fireside, Springfield, Ohio.
 Farm and Home, Springfield, Mass.
 Farm, Field and Fireside, Chicago, Ill.
 Farming, Toronto, Canada.
 Farmer's Call, Quincy, Ill.
 Farmer's Review, Chicago, Ill.
 *Garden and Forest, New York.
 Kansas Farmer, Topeka, Kansas.
 Massachusetts Ploughman, Boston, Mass.
 Mirror and Farmer, Manchester, N. H.
 Our Grange Homes, Boston, Mass.
 *Southern Cultivator, Atlanta, Ga.
 Southern Planter, Richmond, Va.
 Sugar Planter's Journal, New Orleans, La.
 Texas Farm and Ranch, Dallas, Texas.
 Wisconsin Agriculturist, Racine, Wis.

STOCK.

American Sheep Breeder, Chicago, Ill.
 Texas Stockman and Farmer, San Antonio, Texas.

LUMBER.

Texas Industrial and Lumber Review, Austin.

DAIRY.

*American Dairyman, New York.
 Jersey Bulletin, Indianapolis, Ind.

MECHANICAL.

*Architecture and Building, New York.
 *American Machinist, New York.
 *Dixie, Atlanta, Ga.
 *Railroad Gazette, New York.

SCIENTIFIC.

Drainage Journal, Indianapolis, Ind.
 *Electrical World, New York.
 *Engineering News, New York.
 *Engineering and Mining Journal, New York.
 *Popular Science Monthly, Boston, Mass.
 *Scientific American and Supplement, New York.



LITERARY.

- *Century, New York.
- *Cosmopolitan, New York.
- *Fortnightly Review, London.
- *Forum, New York.
- *Germania, Boston, Mass.
- *Harper's Monthly, New York.
- *Le Français, New York.
- *Literary Digest, New York.
- *Nation, New York.
- *North American Review, New York.
- *Public Opinion, New York.
- *Scribner's Magazine, New York.

RELIGIOUS.

- Christian Observer, Louisville, Ky.
- Southwestern Presbyterian, New Orleans.
- Texas Presbyterian, Houston, Texas.
- Texas Standard, Waco, Texas.
- Texas Baptist and Herald, Dallas.
- Western Recorder, Louisville, Ky.

JUVENILE.

- *St. Nicholas, Boston, Mass.
- *Youth's Companion, Boston, Mass.

ILLUSTRATED.

- *Harper's Weekly, New York.
- *Puck, New York.
- *Ueber Land und Meer, Berlin, Germany.

GENERAL NEWS.

- Bellville Wochenblatt, Bellville.
- Brazos Pilot, Bryan.
- Brazos Eagle, Bryan.
- *Dallas News, Dallas.
- Denison Dispatch, Denison.
- Denison Herald, Denison.
- Eagle Pass Guide, Eagle Pass.
- Floresville Chronicle, Floresville.
- Franklin Herald, Mount Vernon.
- Freie Presse für Texas, San Antonio.
- Hillsboro Mirror, Hillsboro.

*Houston Post, Houston.

Jacksboro Gazette, Jacksboro.

La Grange Journal, La Grange.

Mason County News, Mason.

McKinney Weekly Enquirer, McKinney.

Midland Gazette, Midland.

Navasota Tablet, Navasota.

Navasota Weekly Review, Navasota.

New Bedford Herald, New Bedford.

*New York World (weekly), New York City.

Nord Texas Presse, Dallas.

Palestine Semi-Weekly, Palestine.

Picayune (weekly), New Orleans.

Seguin Zeitung, Seguin.

Seguin Enterprise, Seguin.

Semi-Weekly Times, Palestine.

Standard-Herald, Rusk.

Taylor Weekly, Taylor.

Terrell Times-Star, Terrell.

Texas Staats Zeitung, Brenham.

Uvalde News, Uvalde.

Van Alstyne News, Van Alstyne.

Victoria Review, Victoria.

Waco Morning News, Waco.

MUSEUM.

A room in the main building has been fitted up for a museum. The closets and show cases are well furnished with specimens of many varieties.

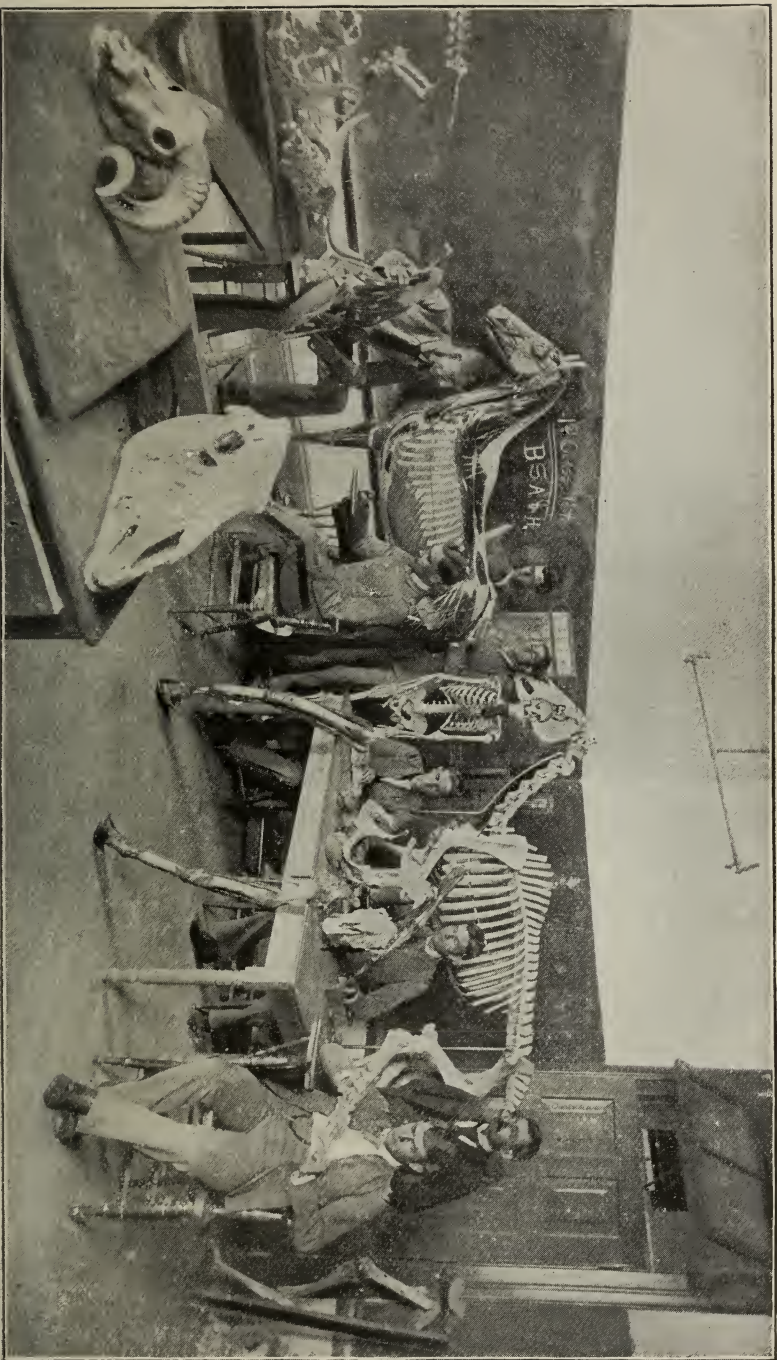
Minerals from all parts of the State will be received and their composition determined by chemical analysis.

LITERARY SOCIETIES.

There are two literary societies at the College—the Austin and the Calliopean. They meet weekly in their respective halls for practice in debate, literary composition, and declamation. Public debates are held frequently during the session, and speakers are invited to deliver addresses.

RELIGIOUS AND MORAL CULTURE.

Every Sunday there will be service in the chapel. The faculty will try by all means within their power to protect and develop good morals in those committed to their charge.



The situation of the College is peculiarly favorable for the preservation of the morals of the students. The nearest town is distant five miles, and it is almost impossible for any student to go to Bryan, even for a short time, without his absence becoming known to the authorities. All the temptations that beset young men in cities are entirely absent here.

An active branch of the Young Men's Christian Association has been established, with a present membership of forty-five. In conjunction with their Christian work these young men, with the liberal aid of the professors, cadets, citizens and the College, erected a gymnasium hall, which has been fairly well furnished with the ordinary paraphernalia requisite for the reasonable exercise of gymnastic feats. This has been hailed by the boys as a great boon, and affords the means for enjoyable recreation.

HYGIENE.

The buildings of the College stand upon the crest of a "divide," from which there is sufficient slope to carry off all drainage.

The soil is sandy, and mud and water disappear within a few hours after rain. An extensive open prairie surrounds the College on all sides. There is a constant breeze—usually very strong. The water used by students is obtained from cisterns, supplied from high, clean roofs.

The rooms of the students are inspected at least twice a day, and are required to be kept neat and well ventilated.

There is in the vicinity of the College apparently nothing to produce malarial sickness, and as a matter of fact there is very little of it here. All serious sickness has been in the form of pneumonia and measles, which do not depend on local causes.

The food served in the mess hall is abundant, palatable, and wholesome. It is therefore very desirable that parents should refrain from sending boxes of delicacies to their sons. The practice of eating from these between meals is undoubtedly very injurious to the health of the young men, and the surgeon has traced more sickness and consequent loss of time to this one cause than to any other.

The drill, farm and shop practice, and athletic sports furnish abundant and wholesome exercise for the students.

TO PARENTS AND GUARDIANS.

The necessity for uninterrupted attention to their studies on the part of students can not be too strongly urged. It is impossible for a young man to become interested in his work here if he is permitted to leave the College whenever any special amusement is advertised in our neighboring towns and cities. It is therefore respectfully asked that those who send their sons or wards here do not, except in the most pressing emergencies, request permission for them to leave their studies.

Whenever the parent or guardian shall leave the application for special permits to the discretion of the son or ward, the College authorities will judge of the propriety of granting such permits.

A SPECIAL WARNING IN REGARD TO THE CHRISTMAS HOLIDAYS.

No student will be allowed to anticipate the date of the holidays and leave the College at a time when his examinations are pending. The evil consequences are not confined to the individual student, for his classmates and friends are so disturbed in their minds by the feeling of homesickness that almost invariably results, as to be unable to acquit themselves creditably. A parent or guardian sometimes writes for his son or ward to come home in this manner, and afterwards complains because the student is not promoted to the higher class, when such failure is often due to the loss of time caused by this absence from the regular duties.

Attention is called to the following rule:

“Except in urgent cases, leaves of absence shall not be granted within two weeks of the close of the session nor within two weeks of the Christmas holidays.”

MILITARY ORGANIZATION AND DISCIPLINE.

For the purpose of maintaining good order and discipline, as well as for the proper execution of the law of Congress requiring military instruction of the students, they are organized into a battalion of four companies and staff. The battalion is under the immediate command of the Commandant. The officers, commissioned and non-commissioned, are students taken for the most part from the first and second classes. They are appointed by the President of the College upon the recommendation of the Commandant, and their appointment and rank are made to depend upon the active and soldierly performance of their duties, their



sense of duty and responsibility, and their general good conduct and class standing.

The President, by College regulations, is responsible for the government and management of the College, and supervises and controls all the departments, collegiate and otherwise.

The Commandant has immediate command of the corps of students, and is responsible for the military organization. All permits for privileges, all excuses and explanations for delinquencies must be submitted through him.

GENERAL REGULATIONS.

It is understood that every student upon entering the College pledges himself to an honest effort to observe the regulations and sustain the authorities in the maintenance of discipline.

The strictest attention to study, and the most exact punctuality in attendance on recitations and other duties, will be made the condition of every student's continuance at the College, and any student who without authority absents himself from recitations or any other duty, deserts his class, or refuses to attend when warned, shall be dismissed, or less severely punished, at the discretion of the faculty.

Students are forbidden to enter into combinations under any pretext whatever. One who shall begin, excite, cause or join in any boisterous or riotous conduct, or become a party to any agreement to avoid or violate any regulation, to hold no intercourse with a comrade, or to do any act to the prejudice of good order and military discipline, shall be dismissed.

If any student shall be guilty of hazing or of inciting others thereto, he shall be expelled, and it shall be the duty of the President to place opposite his name in the Catalogue the words, "expelled for hazing."

Students are prohibited, under the penalty of dismissal, from having in their possession ammunition, weapons, or arms not issued for the performance of military duty; nor shall these be retained loaded in quarters under any pretext.

A student who shall drink, or bring, or cause to be brought within the cadet's limits, or have in his room, or otherwise in his possession, any fermented or intoxicating liquor, or fruits or viands preserved in intoxicating liquor, shall be dismissed or otherwise punished, at the discretion of the Faculty.

No student shall have in his possession or play at cards or games of

chance, engage in a raffle, or in any manner wager money or other things, on penalty of dismissal.

Permission to attend private parties or places of public amusement will not be granted during the term.

No cadet can be granted a leave of absence during a term without an urgent necessity.

No student is allowed to leave the College during the session without permission of the President of the College, on application through the Commandant.

A student who shall cut, mark, or otherwise injure or deface the buildings, furniture, or appurtenances, the trees, shrubbery, greensward, grounds, fences, stables, or outhouses, or who shall lose, injure, destroy, or improperly dispose of the arms, accoutrements, or other property of the College, shall make good all damage, and be dismissed or otherwise punished according to the nature of the offense.

When the responsibility for the destruction of State property can not be fixed upon any one, the amount of the damage will be assessed against the occupants of a room or division of the entire body of the students, as the case may require.

Students receive the admonition and counsel of the President before being subjected to any penalty, except in the case of flagrant offenses. Those who are habitually neglectful of their duties, or who do not regularly attend their classes, will be required to withdraw from the College.

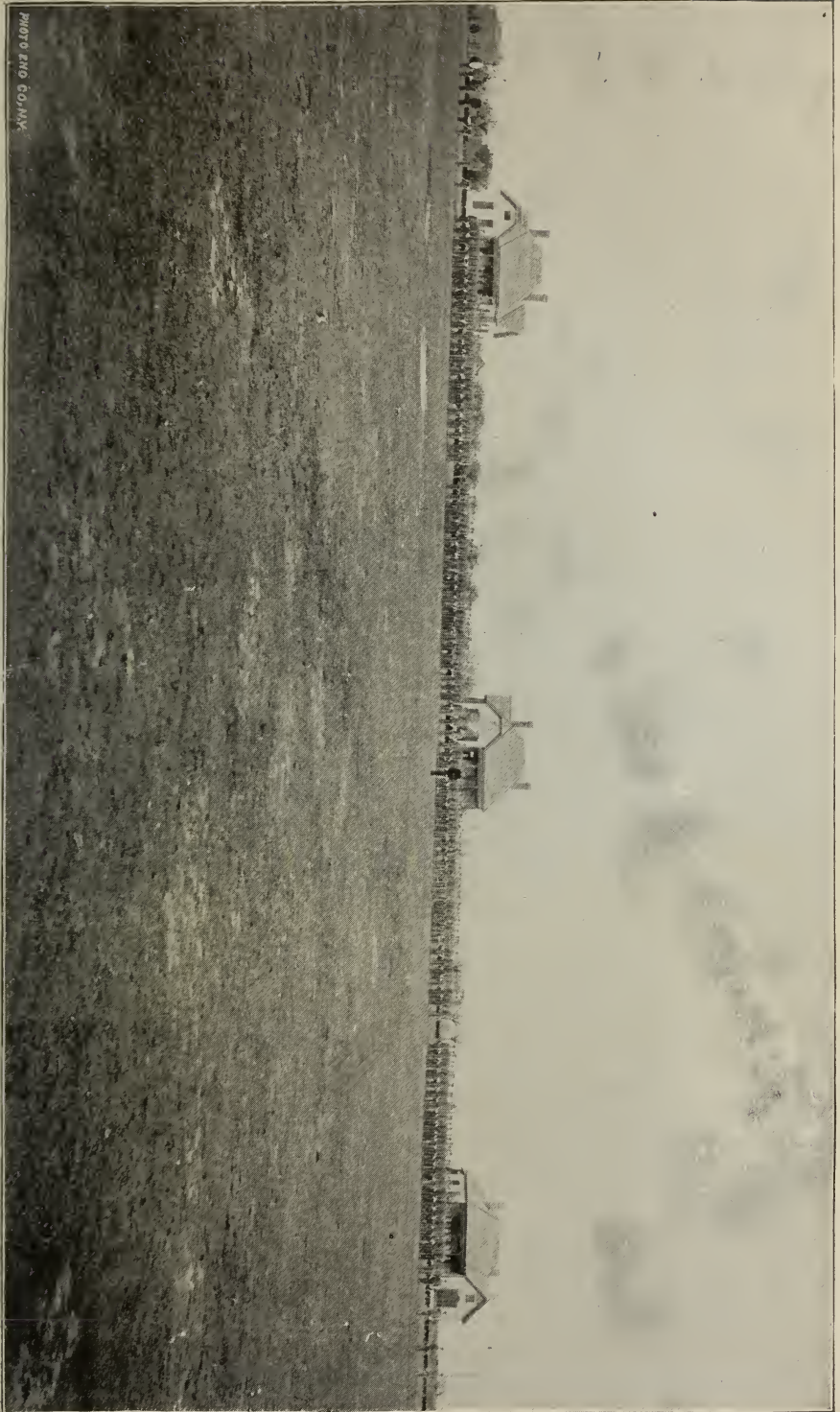
To each recorded delinquency a number of from one to ten, proportional to the degree of the offense, in a moral and military view, is assigned to express demerit.

Any student receiving demerits as follows shall be declared deficient in conduct, and subject to dismissal: In the First class: in the fall term 40, winter term 30, spring term 30, in the year 100; in the Second class: in the fall term 60, winter term 50, spring term 40, in the year 150; in the Third class: in the fall term 80, winter term 60, spring term 60, in the year 200; in the Fourth class: in the fall term 100, winter term 75, spring term 75, in the year 250.

MONTHLY REPORTS, EXAMINATIONS, AND ADVANCEMENT.

Records of the standing of each student are kept by the professors of the several departments. This standing is indicated by a system of marks based upon 100 as a maximum, with decimal gradations.

A monthly report is mailed to the parent or guardian of each student, showing his class standing, conduct and health.



Examinations are held from time to time during the session as special subjects of study may be completed.

Students who attain in any subject an average monthly grade as high as 85 in the Third or Fourth class, 90 in the Second class, 95 in the First class, are exempt from standing the examination, except in the following cases:

(1) When a student has been absent from as many as one-tenth the entire number of recitations in the subject.

(2) When the subject is given by lectures, or for any other reason the instructor is not satisfied with the student's monthly average.

A student's final grade in any subject is determined by averaging his term grade, if any, with his examination grade, if any. Then, provided the examination grade be not below 55, he will be passed on a final grade of 66 in the Third and Fourth classes, of 70 in the First and Second.

In subjects where no examination is given, the student, in order to pass, must have a term grade at least as high as the passing mark of his class, and must complete a certain amount of practice or work prescribed by the professor in charge.

A student who has been found deficient on any subject will be given a second examination; but he must make the passing mark of his class thereon, without taking into account his term grade. This second examination will not affect his class standing.

No student will be given more than two examinations on one subject, provided:

(1) A student who has failed on a second examination may be examined again at the opening of the next session.

(2) A member of the First class who has failed on a second examination upon one subject only, but has complied with all the other requirements for graduation, may, by the consent of the Faculty, be given a third examination upon that subject during the week before Commencement.

Advancement from one class to the next higher (except to the First) is governed by the following provisions:

(1) A student who has attained a passing mark upon all his studies will be reported as "passed," and may enter the next higher class unconditionally.

(2) A student who has been found deficient in not more than two subjects will be reported as "passed conditionally," and may enter the next higher class, but must remove his "conditions" by making the re-

quired passing mark at some time during the next session, or within a shorter time if prescribed by the Faculty.

(3) A student who has been found deficient in more than two subjects shall not be allowed to enter the next higher class except by making the required passing mark, at the opening of the next session, upon all but one of the subjects in which he was deficient.

No student will be admitted to the First class with any conditions still unremoved.

GRADUATION.

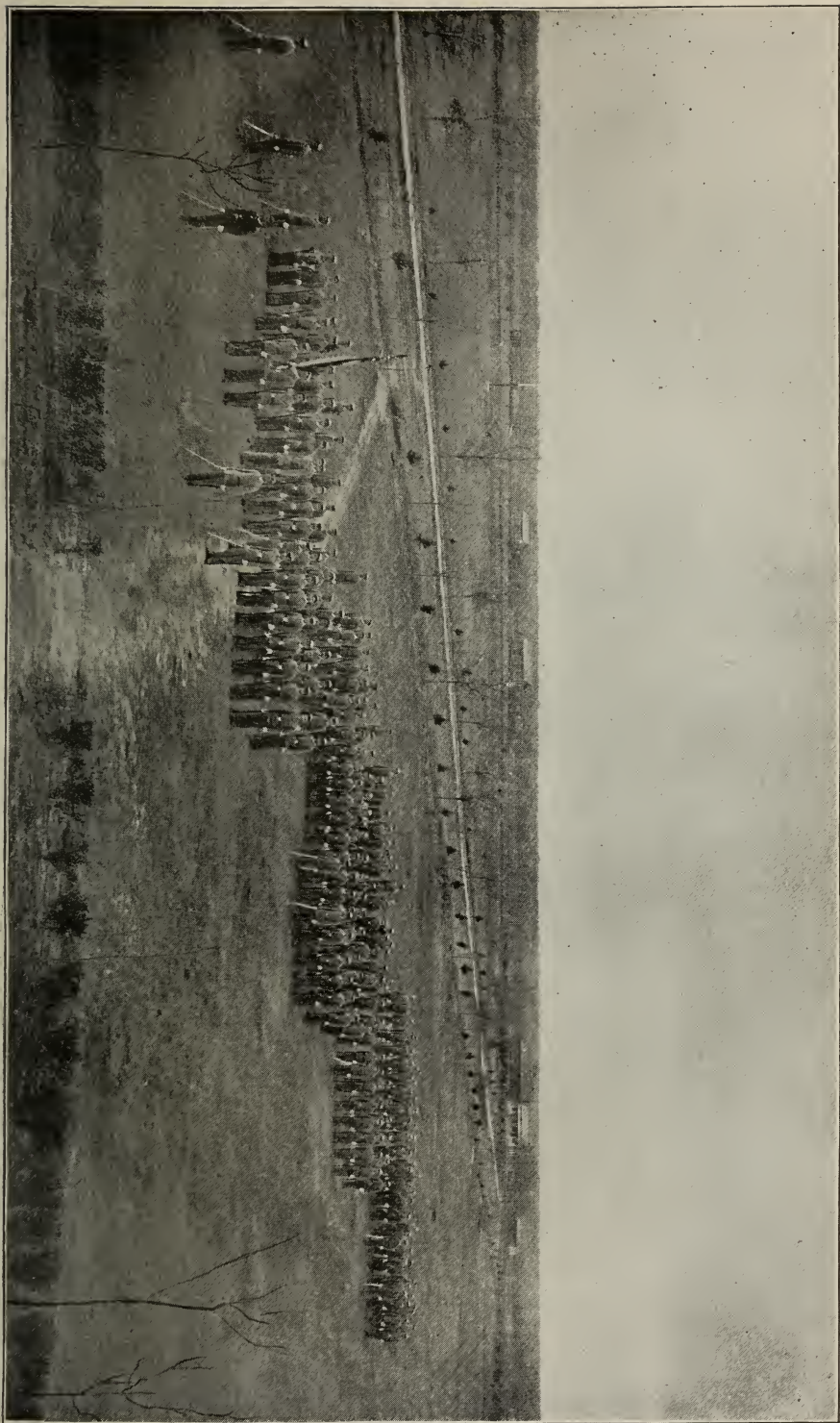
A diploma of the College, with the degree corresponding to the course of study pursued, will be granted students who complete one of the prescribed courses and pass satisfactory examinations on all the branches embraced therein. Each candidate for graduation is required to prepare a thesis upon a subject bearing upon his work in some scientific or practical department. The subject must be approved by the Faculty, and the thesis by the head of the department in which it was written.

To every student who completes satisfactorily any one of the optional studies — German, French, Latin — a certificate of proficiency on that subject will be granted. Each student receiving a diploma will be required to pay \$5 therefor.

HONORS.

The three students of the graduating class who have the best records for scholarship and deportment are known as honor men; but this rule may be modified if the number of students in any class or their scholarship shall not warrant such distinction.

In each of the lower classes the three students having the highest general average in all their studies, and also in each department the three students of the several classes whose final grades are highest, are announced at commencement as “distinguished.”



DEGREES AND HONORS.

Conferred at Commencement, June, 1895.

DEGREE OF B. S. A.

A. W. Bloor, H. Clark, A. H. Fitzgerald, W. F. Hutson, F. M. Law, E. B. Mouser, D. D. Wells.

DEGREE OF B. S. H.

H. Coulter.

DEGREE OF B. C. E.

A. S. Adams, W. Amthor, A. P. Duggan, J. R. Holman, H. P. Jordan, W. M. Moore, A. F. Moursund, W. A. Polk, R. C. Watkins, G. R. White, A. F. Wight.

DEGREE OF B. M. E.

C. E. Burgoon, R. M. Burleson, W. Coulter, A. G. Farmer, H. B. Martin, H. F. McDonald, M. McMillan, A. U. Smith.

HONOR GRADUATES—SESSION 1894-95.

Hutson, Law, McMillan.

DISTINGUISHED STUDENTS BY CLASSES.

First Class—Hutson, Law, McMillan.

Second Class—Park, Hutson, H., Kerr, E.

Third Class—McFarland, Leavell, Connor.

Fourth Class—Homann, Burton, Harrison, W. A.

DISTINGUISHED STUDENTS BY DEPARTMENTS.

FIRST CLASS.

Agriculture—Hutson, Coulter, Law.

Chemistry—Law, Hutson, Mouser.

Civil Engineering and Physics—Wight, White, Watkins.

Drawing—Burgoon, Holman, McMillan.

English and History—Hutson, Law, Fitzgerald.

Horticulture and Botany—Coulter, H., Hutson, Law.

Languages—Belden, Holman, Duggan.

Mathematics—Burgoon, Wight, Burleson.

Mechanical Engineering—Smith, Burgoon, Burleson.

Veterinary Science—Law, Hutson, Coulter, H.

SECOND CLASS.

Agriculture—Kyle, Howell, Blount, S.
 Chemistry—Park, Rosenthal, Eberspacher.
 Civil Engineering and Physics—Park, Staples, Miley.
 Drawing—Park, Hutson, Staples.
 English and History—Park, Rosenthal, Kerr, E.
 Horticulture and Botany—Hildebrandt, Krug, Gross.
 Languages—Hildebrandt, Park, Goldberg.
 Mathematics—Miley, Park, Howell.
 Mechanical Engineering—Hutson, Kerr, J., Kerr, E.
 Military Science—Park, Miley, Rosenthal, Goldberg.
 Veterinary Science—Blount, S., Gross, Sanders.

THIRD CLASS.

Agriculture—Bryan, Todd, Ledbetter.
 Civil Engineering and Physics—McFarland, Leavell, Wheat.
 Drawing—Leavell, Rohrabacher, Connor.
 English and History—Ledbetter, Rohrabacher, McFarland.
 Horticulture and Botany—Ledbetter, Bryan, Todd.
 Mathematics—McFarland, Wheat, Todd.
 Mechanical Engineering—Shires, G., Shires, F., Vinther.
 Veterinary Science—Chiles W., Todd, Ledbetter.

FOURTH CLASS.

Agriculture—Harrison, W. A., Burton, Homann.
 Drawing—Harrison, W. A., Wallney, Perkins.
 English and History—Harrison, W. A., Hoskins, Rochelle.
 Mathematics—Barnes, Bretschneider, Grimes.
 Mechanical Engineering—McGee, Perkins, Curry.

BATTALION ORGANIZATION.

G. T. BARTLETT, First Lieutenant, Third Artillery, Commandant of Cadets.

Commissioned Staff	{	I. L. Goldberg, First Lieutenant and Adjutant.
		W. O. Sanders, First Lieutenant and Quartermaster.
		A. M. Hildebrandt, First Lieutenant and Private Sec'y.
		H. L. Hutson, First Lieutenant and Orderly Officer.
Non-Commissioned Staff	{	A. J. Kyle, Sergeant Major.
		P. F. Hyatt, Quartermaster Sergeant.
		B. F. Bryan, Sergeant and Battalion Clerk.

CAPTAINS.

Co. A.	Co. B.	Co. C.	Co. D.
C. M. Park,	J. W. Burney,	C. L. Scherer,	E. W. Kerr.

FIRST LIEUTENANTS.

S. E. Rhodes,	C. B. Finney,	J. H. Miley,	H. C. Kyle.
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SECOND LIEUTENANTS.

H. H. Rosenthal, J. C. McNeill, F. L. Wisdom, R. W. Howell.

FIRST SERGEANTS.

C. C. Todd, G. Shires, C. Roberts, H. Ueckert.

SERGEANTS.

E. Couch,	F. N. Shires,	J. C. Spears,	O. J. Knolle,
H. M. Cavitt,	J. H. Salyer,	H. W. Rollins,	W. W. Greenwood,
H. Cotton,	T. Durham,	E. Nelson,	E. M. Overshiner,
H. M. Eldridge,	C. M. Buhler,	W. F. Hutchinson,	A. M. H. Stark,
		J. Blount,	J. Y. Lowry.

CORPORALS.

R. M. Barnes,	E. W. Eblin,	J. B. Rochelle,	O. P. McGee,
J. Dahlich,	W. A. Scherer,	E. Robinson,	M. B. Mathews,
W. C. Martin,	J. G. Kerr,	C. G. Robson,	C. B. Donalson,
G. Newton,			T. L. Smith.

BAND.

Mr. G. W. Gross, Leader,	A. W. Ball, First Lieutenant,
P. B. Bittle, Second Lieutenant.	E. H. Sternenberg, Drum Major.

Sergeants {	W. Faust,	Corporals {	A. Homan.
	H. J. Sherwood.		W. A. Harrison.
	L. Williams,		

R. H. Berkley,	B. B. Sellars,	E. McKinnon,	J. McCrary,
H. H. Tracy,	M. D. Green,	C. D. Caldwell,	H. E. Rawlins.
C. A. Johnson,			

COMMENCEMENT EXERCISES.

June 9, 10, and 11, 1895.

PROGRAMME.

Sunday, June 9.

9 a. m. Inspection of Cadet Quarters.

11 a. m. Commencement Sermon by Rev. Dr. W. P. McLean, of Georgetown, Texas.

8:30 p. m. Address before the Young Men's Christian Association by Rev. C. L. Smith, of Gainesville, Texas.

Monday, June 10.

9 to 12 a. m. Inspection of Departments, including exhibition of stock, apparatus, and appliances of instruction; display of products of students' work; students at work.

2 to 3:30 p. m. Social reunion and business meeting of the Alumni.

3:30 p. m. Infantry drill.

4:30 p. m. Drill by Ross Volunteers.

8:30 p. m. Joint celebration of societies.

Tuesday, June 11—Commencement Day.

10 a. m. Reading of thesis by first honor graduate.

Commencement address by Senator Perry McComb, of Conroe, Texas.

Delivery of medals.

Valedictory address: R. C. Watkins, Bryan, Texas. (Elected by first class.)

Response to the valedictory: F. D. Perkins, McKinney, Texas. (Elected by second class.)

Announcement of students distinguished in the several departments and classes.

Delivery of diplomas and conferring of degrees by the President of the Board.

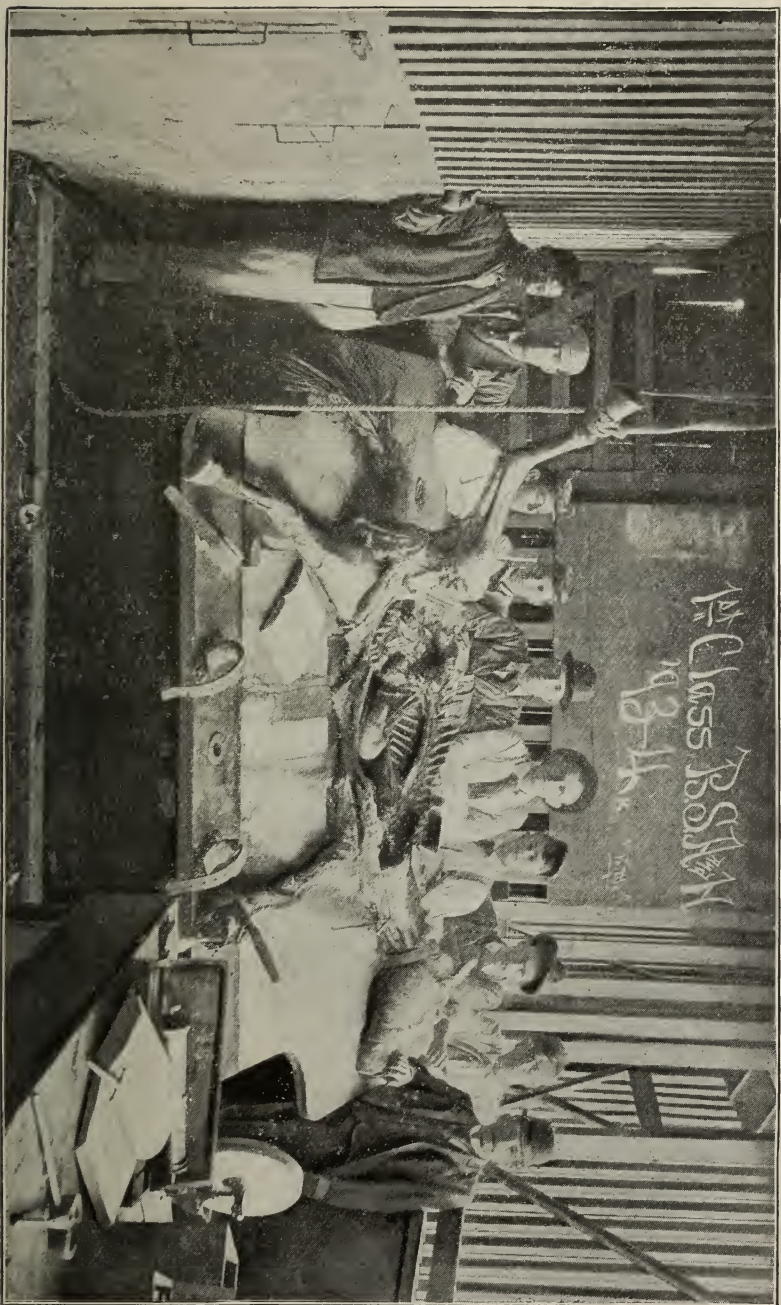
3:30 p. m. Sham battle.

4:15 p. m. Graduating parade and announcement of promotions.

GRADUATING CLASS,

With Subjects of Theses.

W. Amthor, McGregor,	}	.....Concrete Walks for College Campus.
W. M. Moore, McKinney,		
A. S. Adams, Bryan,	}	.....The College and Northeastern Railroad.
R. C. Watkins, Bryan,		
C. E. Burgoon, Estelle.....		Design of a Seventy-five-Horse Power High Speed Steam Engine.
R. W. Burleson, San Saba,	}	.....Review of Siberian Ice Machine.
M. McMillan, Boerne,		
A. W. Bloor, Manor.....		Alfalfa.
H. Clark, El Paso.....		Silos.
H. Coulter, Bryan.....		Bitter Rot of the Apple.
W. Coulter, Bryan.....		Belt Gearing.
A. P. Duggan, San Saba.....		Design of a Through Railroad Bridge of 105 feet Span.
A. H. Fitzgerald, Shiner.....		Chemistry of Plant Growth.
A. G. Farmer, Junction City....		Design of a Wire Rope Tramway for Carrying Coal.
J. R. Holman, Comanche.....		Railroad Location.
W. F. Hutson, College.....		Pest Grasses of the South.



- H. P. Jordan, BeaumontDesign of Single Track Through Railroad Bridge.
- F. M. Law, Jr., BryanCanaigre.
- H. B. Martin, Marlin, }
H. F. McDonald, McKinney, }Review of Corliss Engine.
- E. B. Mouser, Reinhardt.....Review of the Lumbo-Sacral Plexus of the Horse.
- W. A. Polk, Jr., CorsicanaPlant for Sewage Disposal at the A. and M. College.
- A. F. Moursund, Fredricksburg..Design of Six-panel, Single Track Deck Railroad Bridge.
- A. U. Smith, Huntsville.....The Indicator and its Use.
- D. D. Wells, WeatherfordThe Cultivation of Tobacco in Texas.
- A. T. Wight, Roxton, }
G. R. White, Brady, }Review of the Water Works System of the A. and M. College.

ALUMNI.

ALUMNI ASSOCIATION.

Organization for 1895-96.

- B. C. Pittuck, 1894.....DallasPresident.
- R. C. Watkins, 1895BryanFirst Vice-President.
- E. Wright, 1892.....ParisSecond Vice-President.
- A. J. McNair, 1887NavasotaThird Vice-President.
- F. E. Giesecke, 1886.....CollegeSecretary and Treasurer.
- A. M. Ferguson, 1894CollegeEditor College Journal.

EXECUTIVE COMMITTEE.

- B. C. Pittuck, 1894. A. L. Banks, 1879. F. E. Giesecke, 1886.

From the opening of the College, in 1876, to its reorganization, in 1880, the studies were elective. There were many graduates during that period in one or more departments.

Names of deceased alumni are marked *.

The present occupations of alumni are given as far as known, but information as to these is not readily accessible and errors may be found in that given here. The alumni are requested to aid the President in making their roll as complete as possible, as a means of conveying to each trustworthy intelligence of all the others.

Abbreviations—L. Latin, Gr. Greek, G. German, F. French, S. Spanish, Philos. Philosophy, E. English, M. Mathematics, C. Chemistry, P. Physics.

1878.

Name.	Course.	Occupation.	Residence.
W. A. F. Trenckman ...	G	Editor.....	Bellville.
R. A. Rogers	L., G.....	Lawyer.....	Allen Farm.

1879.

Name.	Course.	Occupation.	Residence.
A. Cunningham.....	L., Gr., G., M., C., P.	.....	Hempstead.
P. L. Downs	L., Gr., G	Bank president	Temple.
F. W. Fort	L., Gr., G	Bank cashier	Waco.
J. R. Downs.....	L., G.	Lawyer.....	Waco.
* D. M. Jack.....	L., G., Philos., E.	.....	[Mass.]
E. Y. Mullins	L., G.	Minister	Newton Center,
R. A. Rogers.....	L., Gr., G., E., Philos.	Lawyer.....	Allen Farm.
W. M. Sleeper	L., Gr., G., M.	Lawyer.....	Waco.
S. Baker	G.	Merchant	Navasota.
A. L. Banks.....	G.	Adjunct Prof. Math.	College Station.
W. H. Brown.....	G.	Lawyer.....	Navasota.
M. L. Chambers.....	G.	Cashier.....	Fort Worth.
T. A. Fuller.....	G.	Lawyer.....	San Antonio.
L. J. Kopke	G., M.	Chief Eng., G. B. & K. C. Ry.	Beaumont.
F. A. Reichardt	G. ....	.....	Houston.
Chas. Rogan	G., E., C., P.	County judge.....	Brownwood.
H. G. Smythe	G.	Physician.....	Bryan.
W. A. F. Trenckman ...	F., S., Philos., E., C., P.	Editor.....	Bellville.
K. M. Van Zandt	G.	Treasurer T. C. I. Co.	Fort Worth.
J. J. Baker.....	F., S., Philos., E.	Commercial traveler.	Shreveport, La.
E. G. Cochran.....	F., Philos., E.	Physician.....	Greenville.
T. H. Brown	S.	County clerk.....	Waco.
D. Campbell.....	S. ....	.....	.....
J. H. Haden.....	S. ....	.....	Blooming Grove.
M. Black	Philos., E....	Minister .....	.....

1880.

Name.	Course.	Occupation.	Residence.
C. S. Miller	E., L.	Real estate agent....	Ballinger.
F. F. Bledsoe.....	E., Gr.	Teacher	Lampasas.
D. E. Alexander.....	E., L., M. ....	.....	.....
* T. E. Blakemore	E., M. ....	.....	.....
L. F. Kopke.....	Civil Eng....	Chief Eng., G. B. & K. C. Ry.	Beaumont.
W. H. Brown.....	Civil Eng....	Lawyer.....	Navasota.
E. E. Fitzhugh.....	E. L. M. ....	.....	Waco.

1881.

Name.	Course.	Occupation.	Residence.
*G. H. Dugan

1882.

Name.	Course.	Occupation.	Residence.
M. F. Armstrong.....	Mechl.....	Lumber manufac'r..	Chappel Hill.
Searcy Baker.....	Mechl.....	Merchant	Navasota.
J. H. Buford	Mechl.....	Physician.....	Independence.
* F. R. von Biberstein..	Mechl.....	.....	.....
J. R. Cravens	Mechl.....	State Agt. and Adj. Am. Cent. Ins. Co.	Dallas.
C. S. Graves.....	Mechl.....	Chf. Clk. Aud. Dept. Mex. Intern. Ry.	Porferio Diaz, Mexico.
S. A. Hare	Mechl.....	Lawyer.....	Sherman.
R. S. Lipscomb.....	Mechl.....	Physician.....	Grapevine.
David Rice.....	Mechl.....	Lumber manufac'r..	Houston.
Robert Sawyer.....	Mechl.....	Lumber dealer.....	Clarendon.
Aaron Talbert.....	Mechl.....	Farmer	Calvert.
D. H. Watson	Mechl.....	Horticulturist	Brenham.

1883.

Name.	Course.	Occupation.	Residence.
* J. C. Caldwell	Mechl.....	.....	.....
J. F. Edwards.....	Mechl.....	Merchant .....	.....
Osborne Kennedy	Mechl.....	Lawyer.....	Mexia.
H. J. Miller	Mechl.....	Merchant.....	Bellville.
* W. E. Mosely.....	Mechl.....	.....	.....
A. T. Patrick.....	Mechl.....	Lawyer.....	Houston.
W. L. Tuller	Mechl.....	Real estate agent...	.....
* J. M. Wesson	Mechl.....	.....	.....

1884.

Name.	Course.	Occupation.	Residence.
G. W. Roach.....	M.....	Supt. city school...	Abilene.
W. Wipprecht.....	A.....	.....	Bryan.
J. L. Gray	M.....	Civil engineer .....	.....
T. B. McQueen.....	M.....	Bookkeeper.....	Dallas.
N. A. Dawson	M.....	Lawyer.....	Austin.
F. C. von Rosenberg...	M.....	Lawyer.....	Austin.
B. C. Makensen.....	M.....	Teacher	San Antonio.
A. L. Shirley	A.....	R. R. Agt., merchant	Anna.
R. E. Pennington	A.....	Lawyer.....	Brenham.
G. Giesecke	M.....	Proprietor flour mills	San Antonio.
R. B. Green.....	M.....	District judge	San Antonio.
W. B. Philpott.....	M.....	Ass. Prof. Eng. & His.	College Station.
B. E. Knolle	M.....	Physician.....	Industry.
V. Andrews.....	M.....	Physician.....	.....

1885.

Name.	Course.	Occupation.	Residence.
W. Wipprecht, B. S. A..	P. G .....	.....	Bryan.
J. N. Davis	M.....	Supt. city school....	McGregor.
F. L. Pfeuffer	M.....	Merchant.....	New Braunfels.
W. Whitaker	M	Contractor	Texarkana.
T. D. Rowell	A	Lawyer.....	Jefferson.
F. Caruthers	A	Treasurer	Guthrie, Ok.
F. E. Dudley.....	M.....	.....	.....
L. Makensen	M.....	.....	.....
C. H. Pescay	M.....	Insurance adjuster..	Houston.
S. Hough	M.....	Lawyer.....	Rock Springs.
* E. W. Spann	M.....	.....	.....

1886.

Name.	Course.	Occupation.	Residence.
D. Adriance.....	A	Asst. Prof. Chemistry	College Station.
F. E. Giesecke	M.....	Professor Drawing..	College Station.
M. D. Tilson	M.....	Civil engineer	Texarkana.
H. L. Wright.....	M.....	Mgr. Palestine W. & P. Co.	Palestine.
I. A. Cottingham	M.....	Civil eng., S. P. Ry.	Houston.
E. H. Whitlock.....	M.....	Mechanical engineer.	Cleveland, O.
J. W. Carson.....	A	Asst. Director Exp. Station.	College Station.
C. L. Burchardt.....	M.....	Bank cashier	Karnes City.
J. M. Carson	A	Merchant.....	Fort Worth.
W. F. Woodward.....	M.....	Stock raiser	Antelope.
C. C. McCullough.....	M.....	Surgeon, U. S. Army	Hot Springs.

1887.

Name.	Course.	Occupation.	Residence.
G. A. Rogers	M.....	Merchant	Longview.
J. H. Freeman	M.....	Prop. livery stable ..	Austin.
F. L. Fordtran	A	Physician	Flatonio.
H. J. McNair.....	M.....	Editor.....	Navasota.
T. B. West	M.....	.....	Columbus.
L. E. Allen	M.....	Bookkeeper.....	Marlin.
E. R. Knolle	M.....	Physician.....	Wesley.
J. B. Hereford	M.....	Special insurance agt	Dallas.
H. C. Hare	M.....	Lawyer.....	Sherman.
E. Gruene.....	M.....	Teacher	New Braunfels.



PHOTO L. H. CO. A. 11

GREENHOUSE.

1888.

Name.	Degree.	Occupation.	Residence.
W. H. Allen	B. S. A.	Physician	Marlin.
Paul Braun	B. M. E.		San Antonio.
R. H. Dietert	B. M. E.	Supt. Rep. Dept., H. & T. C. shops.	Houston.
F. C. Hoffman	B. M. E.	Watchmaker	New Braunfels.
H. F. Jonas	B. C. E.	Draughtsman S. P. Ry., B. & B. Div.	Houston.
N. L. Josey	B. S. A.	Bookkeeper	San Antonio.
A. P. Knolle		Physician	Ellinger.
W. H. Knolle	B. C. E.	Physician	Industry.
W. O. R. Pfeuffer	B. S. A.	Physician	Rockdale.
F. Rennert	B. S. A.	Bookkeeper	San Antonio.
* Z. M. Shirley	B. M. E.		
E. J. Smith	B. S. A.	Lawyer	Denison.
W. W. Stewart	B. M. E.	Miller	Stewart's Mill.
M. S. Swain	B. S.	Bond clerk	Austin.
P. S. Tilson	B. S. A.	Asst. Prof. Chemistry	College Station.
W. M. Wood	B. C. E.	Merchant	Dallas.
W. A. Wurzbach	B. C. E.	Lawyer	San Antonio.

1889.

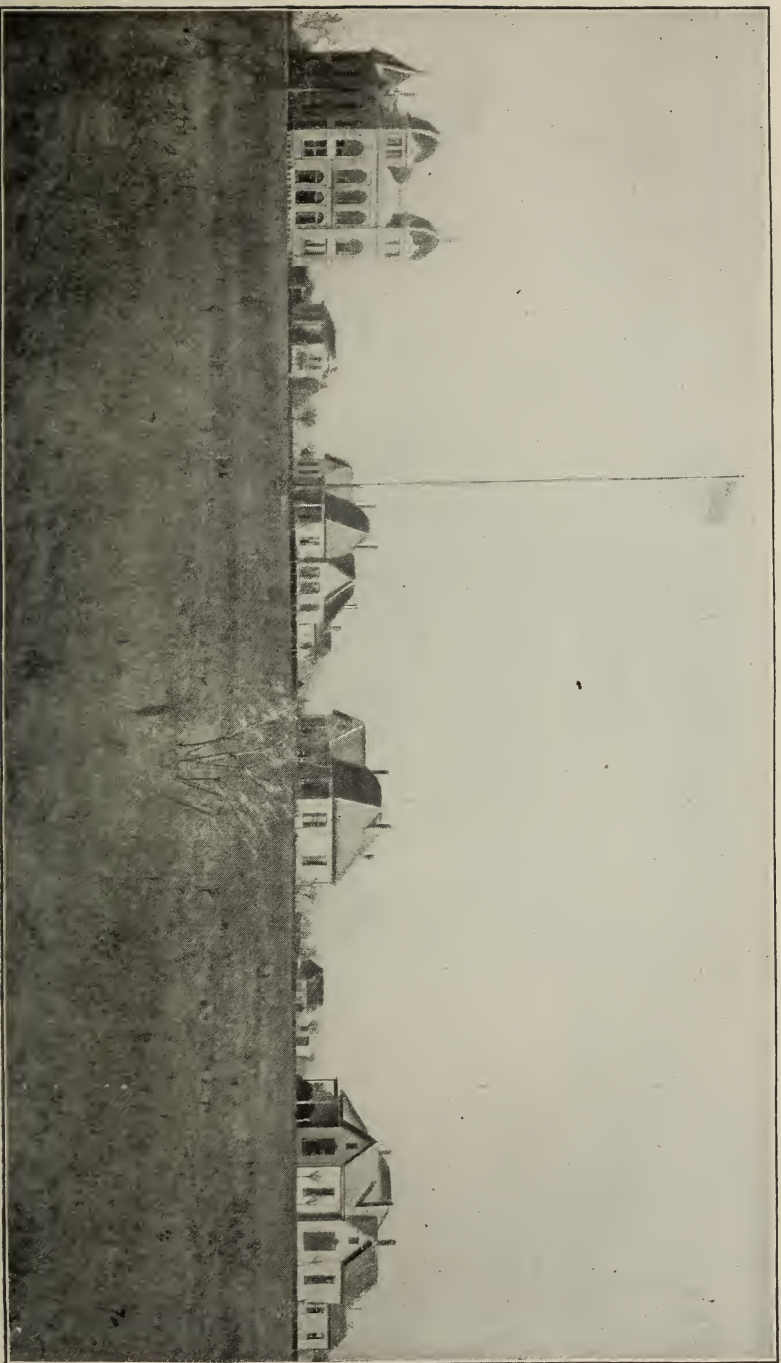
Name.	Degree.	Occupation.	Residence.
L. D. Amsler	B. M. E.	Miller	Hempstead.
C. A. Buckman	B. C. E.	Engineer	Denison.
L. B. Burck	B. C. E.	Commercial traveler.	Galveston.
W. E. Drisdale	B. S.	Physician	Flatonia.
J. D. Fearhake	B. C. E.	Lawyer	Galveston.
E. W. Hutchinson	B. C. E.	Merchant	Houston.
* W. T. Jones	B. C. E.		
J. F. Kuehne	B. M. E.	Bank clerk	Austin.
W. W. K. Leggett	B. C. E.	Civil Eng., Pa. Ry.	Chicago, Ill.
R. Mabry	B. C. E.	Commercial traveler.	Fort Worth.
W. B. Merritt	B. S. A.	Lawyer	McKinney.
E. S. Middlebrook	B. C. E.	Dep. U. S. marshal.	Galveston.
F. L. Montgomery	B. S. A.	Lawyer	Sherman.
H. Ness	B. S.	Asst. Prof. Horticul- ture.	College Station.
J. F. Nichols	B. S.	Lawyer	Greenville.
J. R. Nichols	B. S. A.	Physician	Greenville.
B. F. Rogers	B. C. E.	Merchant	Jefferson.
* M. W. Shirley	B. M. E.		
W. M. Shirley	B. C. E.	County surveyor....	McKinney.

1890.

Name.	Degree.	Occupation.	Residence.
D. Adriance.....	M. S.....	Asso. Prof. Chemistry	College Station.
F. E. Giesecke.....	M. E.....	Prof. Drawing.....	College Station.
C. C. McCullough.....	C. E.....	Surgeon U. S. Army	Hot Springs.
W. B. Philpott.....	M. S.....	Asso. Prof. Eng. and History.	College Station.
Anderson, W. D.....	B. S. A.....	City secretary	Wichita Falls.
*Brittingham, W. F., Jr.	B. C. E.....	.....	.....
Backus, U.....	B. M. E.....	Coahuila Coal Co....	Eagle Pass.
Flynt, H. C.....	B. S. A.....	Farmer.....	.....
Hanschke, Robt., Jr....	B. M. E.....	Engineer.....	San Antonio.
Hernstadt, S. J.....	B. C. E.....	Grain merchant.....	Sherman.
Hopkins, S. H.	B. S. A.....	Lawyer	Gonzales.
Kyle, J. A.	B. S. A.....	Physician.....	Nursery.
Rudasill, W. S.....	B. C. E.....	.....	.....
Ragsdale, J. W.....	B. S. A.....	Lawyer.....	Hallettsville.
Radford, J. S.....	B. S. H.....	Merchant.....	Houston.
Schmidt, C. L.....	B. M. E.....	Machinist, Mx. N. Ry	Laredo.
Van Zandt, R. L.....	B. C. E.....	Bank clerk.....	Fort Worth.
Wangemann, A. E.....	B. S. A.....	Merchant	Brenham.

1891.

Name.	Degree.	Occupation.	Residence.
Ahrenbeck, W. T.	B. M. E.....	Theological student.	Austin.
Cushing, Dan.....	B. M. E.....	Studd. of Pharmacy..	Nashville, Tenn.
Dashiell, W. R.....	B. C. E.....	Physician.....	San Antonio.
Field, Herbert Y.	B. S. A.....	Bookkeeper.....	Fort Worth.
Henderson, Hal.....	B. S. A.....	.....	Paris.
Luckett, Wm. H.	B. S. A.....	Physician.....	Bastrop.
Littlejohn, R. G.....	B. C. E.....	Insurance agent	Fort Worth.
McCormick, Geo., Jr. .	B. M. E.....	Draughtsman S.P.Ry	San Antonio.
Meriwether, W. T.....	B. C. E.....	R. R. land agent	San Antonio.
Middlebrook, R. M....	B. M. E.....	.....	.....
Morrill, C. R.....	B. C. E.....	Draughtsman S.P.Ry	Houston.
Nichols, W. I.....	B. C. E.....	.....	Dallas.
Pfeuffer, U. S.....	B. C. E.....	Merchant.....	New Braunfels.
Wellhausen, C. B.....	B. M. E.....	Bank cashier.....	Shiner.
Whealan, J. J.....	B. M. E.....	Mach' st, H. & T.C.Ry	Houston.
Whitener, H. L.....	B. S. A.....	Physician.....	Burton.
Puckett, J. H.....	Sp. in Ch....	Druggist	Tyler.
Reed, W. K.....	Sp. in Ch....	Physician.....	De Kalb.



1892.

Name.	Degree.	Occupation.	Residence.
Banks, A. L.....	B. S.	Adjunct Prof. Math.	College Station.
Tilson, P. S.....	M. S.	Asst. Prof. Chemistry	College Station.
Adams, F. L.....	B. S. A.	Med. stud't, U. of Va.	
Altgeld, E. J.....	B. C. E.	Bank clerk	San Antonio.
Beasley, W. S.....	B. C. E.	Merchant	Lancaster.
Beyer, F. C.....	B. M. E.	Engineer	Cline.
Bailey, C. C.....	B. C. E.	Merchant	Salado.
Buhler, C. W.....	B. C. E.	Aud. office, S. A. & A. P. Ry.	San Antonio.
Buford, F. L.....	B. C. E.	Asst. engr., G. B. & K. C. Ry.	Beaumont.
Boykin, R. E.....	B. M. E.	Teacher	Mount Calm.
Cook, E. A.....	B. M. E.	Student	New Orleans, La.
Cox, D. W. S.....	B. C. E.	Private secretary...	Washington, D. C.
Cottingham, W. P.....	B. C. E.	Commission merch..	Houston.
Ellis, B. V.....	B. S. A.	Physician.....	Alex, I. T.
Floyd, J. F., Jr.....	B. M. E.	Draughtsman, eng.'s office.	Texarkana.
Gurley, D. R., Jr.....	B. C. E.	Supt. of farm.....	Waco.
Giesecke, W. E.....	B. M. E.		New Braunfels.
Grupe, Geo.....	B. M. E.	Assistant engineer ..	College Station.
Moore, Rob.....	B. S. A.	Druggist	Pittsburg.
Moore, Tom E.....	B. S. A.	Merchant	Gonzales.
Neathery, Dan E.....	B. S. A.	Merchant	Farmersville.
Ortiz, Josey A.....	B. C. E.	Clerk.....	Laredo.
Ratchford, W. P.....	B. M. E.	County surveyor....	Paint Rock.
Schumacher, H. C.....	B. C. E.	Banker	Smithville.
Sauvignet, E. H.....	B. S. A.	Medical student.....	City of Mexico.
Wright, Edgar.....	B. C. E.	Lawyer.....	Paris.
Watkins, W. A.....	B. C. E.	Teacher	Wills Point.
Guenther, F. E.....	Sp. in Ch.....	Medical student.....	Chicago, Ill.

1893.

Name.	Degree.	Occupation.	Residence.
Hutchinson, O. D.....	B. S. A.	Bookkeeper.....	Decatur.
Hawkins, J. W.....	B. S. A.	Bookkeeper.....	Hallettsville.
Kyle, T. M.....	B. M. E.	Stock farmer.....	Nursery.
Lewis, L. L.....	B. S. A.	Instructor	Ames, Iowa.
Mitchell, W. H.....	B. C. E.	Druggist	Holland.
O'Bar, J. H.....	B. S. A.	Insurance agent.....	La Grange.
Parsons, B. C.....	B. S. H.		Kerrville.
Pearson, H. A.....	B. C. E.		
Perlitz, W. E.....	B. C. E.	Commercial traveler.	Smithville.
Rike, H. N.....	B. C. E.	County surveyor....	Haskell.
Rollins, C. W.....	B. C. E.	Teacher	Merritt.
Short, J. L.....	B. S. A.	Medical student.....	Galveston.
Weidel, J.....	B. C. E.	Draughtsman.....	Perth Amboy, N. J.
Watson, W. D.....	B. S. A.	Dairyman	Houston.
Wilson, W.....	B. C. E.	Law student.....	Austin.

1894.

Name.	Degree.	Occupation.	Residence.
Banks, A. L.....	M. S.....	Adj. Prof. of Math..	College Station.
Lewis, L. L.....	M. S.....	Instructor	Ames, Ia.
Abbott, E. G.....	B. C. E.....	Law student	Hillsboro.
Bruce, E. L.....	B. C. E.....	Law student	Austin.
Bocock, J. H.....	B. S. A.....	Farmer	Houston.
Bittle, W. A.....	B. S. A.....	Principal pub. sch'ls.	Washington, La.
Dazey, W. L.....	B. C. E.....	Dental student.....	Nashville, Tenn.
Ellis, Fort O.....	B. C. E.....	Civil engineer	Pineyville, La.
Ferguson, A. M.....	B. S. H.....	Student	College Station.
Fowler, E. R.....	B. C. E.....	Civil engr., S. P. Ry.	
Gilbert, J.....	B. S. A.....	Medical student.....	Galveston.
Houston, F.....	B. C. E.....	Track dept., S. P. Ry.	Houston.
Howell, J. W.....	B. S. A.....	Lumber merchant...	Bryan.
Japhet, G.....	B. M. E.....	Steamboat engineer.	Houston.
Jonas, E. C.....	B. C. E.....	Student.....	San Antonio.
Jahn, F. C.....	B. S. H.....	Nurseryman	Gonzales.
Kell, E.....	B. M. E.....		New Orleans, La.
Lewis, F.....	B. C. E.....	Civil engineer	Forney.
Luckett, W. M.....	B. M. E.....	Student	Bastrop.
Massenburg, W. G.....	B. C. E.....	Civil engineer	Texarkana.
Meyers, W. G.....	B. M. E.....		Meridian, Miss.
Mitchell, A.....	B. C. E.....	Teacher	Black Jack Grove.
Oglesby, G. B.....	B. C. E.....	Teacher	Cedar Mills.
Peters, F.....	B. M. E.....	Draughtsman	Houston.
Pittuck, B. C.....	B. S. A.....	Texas Farm & Ranch	Dallas.
Ross, F. R.....	B. S. A.....	Medical student.....	Tulane University
Rose, W. F.....	B. M. E.....	Draughtsman, S.A. & A. P. Ry.	San Antonio.
Ross, J. G.....	B. C. E.....	Law student	Cold Springs.
Speer, R. H.....	B. C. E.....	Civil engineer	Fort Worth.
Sewell, M. S.....	B. C. E.....	Merchant	McGregor.
Smither, R.....	B. M. E.....	Clerk	Huntsville.
Schmidt, D. T. C.....	B. C. E.....	Eng. Dep. S. P. Ry..	Houston. [Ark.
Todd, A. M.....	B. C. E.....	Asst. with U.S. Engrs.	Luna Landing,

1895.

Name.	Degree.	Occupation.	Residence.
Adams, A. S.	B. C. E.	Asst. eng., H. & T. C. Ry.	Bryan.
Amthor, W.	B. C. E.	Student	Lexington, Ky.
Bloor, A. W.	B. S. A.	Student	Philadelphia.
Burgoon, C. E.	B. M. E.	Asst. engineer	College Station.
Burleson, R. W.	B. M. E.	Clerk.	San Saba.
Coulter, H. T.	B. S. H.	Student	New York.
Coulter, W.	B. M. E.	Merchant	Bryan.
Clark, H.	B. S. A.	Stock raiser	Eolian.
Duggan, A. P.	B. C. E.	Real estate agent....	San Saba.
Farmer, A. G.	B. M. E.	Stock raiser	Junction City.
Fitzgerald, A. H.	B. S. A.	Druggist	Gonzales.
Holman, J. R.	B. C. E.	Dealer in live stock.	Comanche.
Hutson, W. F.	B. S. A.	Student	College Station.
Jordan, H. P.	B. C. E.	Student	Austin.
Law, F. M.	B. S. A.	Teacher	Bryan.
Martin, H. B.	B. M. E.	Surveyor	Marlin.
Moore, W. M.	B. C. E. ....	.....	McKinney.
Moursund, A. F.	B. C. E.	Civil engineer	Laredo.
Mouser, E. B.	B. S. A.	Student	Galveston.
McDonald, H. F.	B. M. E.	Mech'l engineer	McKinney.
McMillan, M.	B. M. E.	Student	Galveston.
Polk, W. A.	B. C. E. ....	.....	.....
Smith, A. U.	B. M. E.	Student	St. Louis.
Watkins, R. C.	B. C. E.	Employe S. P. Ry. ...	Del Rio.
Wells, D. D.	B. S. A.	Student	New York.
White, G. R.	B. C. E.	Student	Lexington, Ky.
Wight, A. F.	B. C. E.	Merchant	Roxton.

AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS.

This College owes its origin to

An Act Donating Public Lands to the several States and Territories which may
Provide Colleges for the Benefit of Agriculture and the Mechanic Arts.

SECTION 1. *Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled*, That there be granted to the several States, for the purpose hereinafter mentioned, an amount of public land, to be apportioned to each State, a quantity equal to thirty thousand acres for each Senator and Representative in Congress to which the States are respectively entitled by the apportionment under the census of eighteen hundred and sixty; provided, that no mineral land shall be selected or purchased under the provisions of this act.

SEC. 2. And be it further enacted, That the land aforesaid, after being surveyed, shall be apportioned to the several States in sections or subdivisions of sections not less than one-quarter of a section; and whenever there are public lands in a State subject to sale at private entry at one dollar and twenty-five cents per acre, the quantity to which said States shall be entitled shall be selected from such lands within the limits of such State; and the Secretary of the Interior is hereby directed to issue to each of the States in which there is not the quantity of public lands subject to sale at private entry at one dollar and twenty-five cents per acre, to which said State may be entitled under the provisions of this act, land scrip, to the amount in acres for the deficiency of its distributive share; said scrip to be sold by said States and the proceeds applied to the uses and purposes prescribed in this act, and for no other use or purpose whatsoever; provided, that in no case shall any State to which land scrip may thus be issued be allowed to locate the same within the limits of any other State, or of any Territory of the United States, but their assignees may thus locate said land scrip upon any of the unappropriated lands of the United States subject to sale at private entry at one dollar and twenty-five cents or less per acre; and, provided further, that no more than one million acres shall be located by such assignees in any one of the States; and, provided further, that no such location shall be made before one year from the passage of this act.

SEC. 3. And be it further enacted, That all the expenses of management, superintendence and taxes from date of selection of said lands previous to their sales, and all expenses incurred in the management and disbursement of the moneys which may be received therefrom, shall be paid by the States to which they may belong, out of the treasury of said States, so that the entire proceeds of the sale of said lands shall be applied without any diminution whatever to the purposes hereinafter mentioned.

SEC. 4. And be it further enacted, That all moneys derived from the sale of the lands aforesaid, by the States to which the lands are apportioned, and from the sale of land scrip hereinbefore provided for, shall be invested in stocks of the United States, or of the States, or some other safe stocks, yielding not less than 5 per centum upon the par value of said stocks, and that the moneys so in-

vested shall constitute a perpetual fund, the capital of which shall remain forever undiminished (except so far as may be provided in section 5 of this act), and the interest of which shall be inviolably appropriated by each State which may take and claim the benefit of this act, to the endowment, support and maintenance of at least one college where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the Legislatures of the States may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life.

SEC. 5. And be it further enacted, That the grant of land and land scrip hereby authorized shall be made on the following conditions, to which, as well as to the provisions hereinbefore contained, the previous assent of the several States shall be signified by legislative acts:

First. If any portion of the fund invested, as provided by the foregoing section, or any portion of the interest thereon, shall, by any action or contingency, be diminished or lost, it shall be replaced by the State to which it belongs, so that the capital of the fund may remain undiminished, and the annual increase shall be regularly applied without diminution to the purposes mentioned in the fourth section of this act, except that a sum not exceeding 10 per centum upon the amount received by any State under the provisions of this act may be expended for the purchase of lands for sites or experimental farms, wherever authorized by the respective Legislatures of said States.

Second. No portion of said fund, nor the interest thereon, shall be applied, directly or indirectly, under any pretense whatever, to the purchase, erection, preservation or repair of any building or buildings.

Third. Any State which may take and claim the benefit of the provisions of this act shall provide, within five years, at least not less than one college, as described in the fourth section of this act, or the grant to such State shall cease, and said State shall be bound to pay to the United States the amount received of any lands previously sold, and that the title to purchasers under the State shall be valid.

Fourth. An annual report shall be made regarding the progress of each college, recording any improvements and experiments made, with their cost and results, and such other matters, including State industrial and economical statistics, as may be supposed useful, one copy of which shall be transmitted by mail free by each to all the other colleges which may be endowed under the provisions of this act, and also one copy to the Secretary of the Interior.

Fifth. When lands shall be selected from those which have been raised to double the minimum price, in consequence of railroad grants, they shall be computed to the State at the maximum price, and the number of acres proportionately diminished.

Sixth. No State, while in a condition of rebellion or insurrection against the government of the United States shall be entitled to the benefits of this act.

Seventh. No State shall be entitled to the benefits of this act unless it shall express its acceptance thereof by its Legislature within two years from the date of its approval by the President.

SEC. 6. And be it further enacted, That land scrip issued under the provisions of this act shall not be subject to location until after the first day of January, one thousand eight hundred and sixty-three.

SEC. 7. And be it further enacted, That land officers shall receive the same fees for locating land scrip issued under the provisions of this act as is now al-

lowed for the location of military bounty land warrants under existing laws; provided, their minimum compensation shall not be thereby increased.

SEC. 8. And be it further enacted, That the governors of the several States to which scrip shall be issued under this act shall be required to report annually to Congress all sales made of such scrip until the whole shall be disposed of, the amount received for the same, and what appropriation has been made of the proceeds.

Approved July 2, 1862.

And to the following amendment:

An act to amend the fifth section of an act entitled "An act donating Public Lands to the several States and Territories which may provide Colleges for the benefit of Agriculture and the Mechanic Arts," approved July 2, eighteen hundred and sixty-two, so as to extend the time within which the provisions of said act shall be accepted and such Colleges established.

1. *Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled*, That the time in which the several States may comply with the provisions of the act of July 2, eighteen hundred and sixty-two, entitled "An act donating public lands to the several States and Territories which may provide colleges for the benefit of agriculture and the mechanic arts," is hereby extended so that the acceptance of the benefits of the said act may be expressed within three years from the passage of this act, and the colleges required by the said act may be provided within five years from the date of filing of such acceptance with the Commissioner of the General Land Office; provided that when any Territory shall become a State and be admitted into the Union, such new State shall be entitled to the benefits of said act of July 2, eighteen hundred and sixty-two, by expressing acceptance therein required within three years from the date of its admission into the Union, and providing the college or colleges within five years of such acceptance, as prescribed in this act; provided further, that any State that has heretofore expressed its acceptance of the act herein referred to shall have the period of five years within which to provide at least one college, as described in the fourth section of this act, after the time for providing said college, according to the act of July 2, eighteen hundred and sixty-two, shall have expired.

Approved July 23, 1865.

By joint resolution, approved November 1, 1871, the Legislature of Texas formally accepted the provisions of the congressional acts, and the State received from the general government scrip for 180,000 acres of public land, the proceeds of which constitute the present permanent endowment fund of this College, and is in Texas 7 per cent gold frontier defense bonds, to the amount of \$174,000.

The Legislature fulfilled its obligations by passing "An act to provide for the establishment of an Agricultural and Mechanical College of Texas," approved April 17, 1871, and by making liberal successive appropriations (aggregating \$187,000) for the buildings and equipments necessary for putting the institution in operation. And the county of

Brazos secured its location within its limits by donating to the State the present College farm, a tract of 2416 acres, five miles south of the town of Bryan.

Finally, the Constitution of 1876, article VII, provided: "Section 3. The Agricultural and Mechanical College of Texas, established by the act of the Legislature, passed April 17, 1871, located in the county of Brazos, is hereby made and constituted a branch of the University of Texas, for instruction in agriculture, the mechanic arts, and the natural sciences connected therewith."

The College was formally opened for the reception of students October 4, 1876.

The Constitution of Texas provides that taxes may be raised for the maintenance and support of the College.

The following act of the Legislature of Texas is now the law governing the College:

An Act regulating the government of the Agricultural and Mechanical College of Texas, as approved March 9, 1875, and amended March 30, 1881.

I. The Board of Directors of said College shall consist of five members.

II. The Directors provided for in the preceding article shall be appointed by the Governor, to be selected from the different portions of the State, and shall hold office for six years or during good behavior, and until their successors are qualified.

III. The Governor shall be authorized to call said Board together after their appointment, and said Board shall at their first meeting elect a president of the Board, who shall thereafter be authorized to call said Board together for the transaction of business whenever he deems it expedient, and a majority of said Board shall constitute a quorum for the transaction of business.

IV. Each of said Directors shall receive their actual expenses incurred in attending the meetings of the Board, to be paid out of the interest of the University fund, on accounts certified by them respectively to be correct, and approved by the Governor.

V. The Secretary of State shall forward a certificate to each Director within ten days after his appointment, notifying him of the fact of such appointment; and should any Director so appointed and notified fail for ten days to give notice to the Governor of his acceptance, his appointment shall be deemed void and his place filled as in case of vacancy.

VI. The Board of Directors shall appoint the President and Professors of the College, and such other officers as they may think proper to put the College into successful operation, and shall make such by-laws, rules and regulations for its government as they deem meet and proper for that purpose, and shall regulate the course of study, rates of tuition, manner of performing labor, and the kind of labor to be performed by the students, together with the course of discipline necessary to enforce the faithful discharge of all the duties of all officers, professors and students, and shall have same printed and circulated for the benefit of the people of the State and officers and students of the College.

VII. The Board of Directors shall elect a Secretary of the Board, whose duty it shall be to keep in a well-bound book all the proceedings had by this Board,

and he shall be allowed by said Board such compensation as they may allow; provided, that the same does not exceed five hundred dollars per annum.

VIII. The interest on the amount of one hundred and seventy-four thousand dollars in 7 per cent gold interest-bearing frontier bonds of Texas, now in the State treasury to the credit of the College, being set apart for that purpose, shall be drawn by the Board of Directors on vouchers audited by the Board, or approved by the Governor and attested by the Secretary, and on filing such vouchers the Comptroller shall draw his warrant on the State treasury for the same, from time to time as they may be needed, to pay the directors, officers and professors of the College.

The following joint resolution was passed by the Sixteenth Legislature:

Joint resolution authorizing the State Librarian to turn over to the Agricultural and Mechanical College of Texas specimens of minerals and other geological specimens in the geological department of said library in certain cases, and copies of all public documents of the State, published for distribution, and all apparatus belonging to the old geological survey.

SECTION 1. *Be it Resolved by the Legislature of the State of Texas:* That the State Librarian be and he is hereby authorized and required to turn over to the Agricultural and Mechanical College of Texas the duplicate specimens in the hands of the agent of the International Railroad Company of all minerals and other geological specimens in the geological department in said library, and copies of all public documents of the State published for distribution, and apparatus belonging to the old geological survey, for the use and benefit of said College.

SEC. 2. That said librarian be required to take an inventory of all specimens thus turned over to said College by him, and file the same in his office.

SEC. 3. The near approach of the close of this session of the Legislature, and the pressing need of geological specimens at said College for the better instruction of its pupils, creates an imperative public necessity for the suspension of the constitutional rule requiring this resolution to be read on three several days; therefore be it further resolved, that the constitutional rule be suspended and this resolution take effect and be in force from and after its passage.

Approved July 9, A. D. 1879.

An act to apply a portion of the proceeds of the public lands to the more complete endowment and support of the colleges for the benefit of agriculture and the mechanic arts, established under the provisions of an Act of Congress, approved July second, eighteen hundred and sixty-two.

Be it enacted by the Senate and House of Representatives of the United States of America, in Congress assembled, That there shall be, and hereby is, annually appropriated out of any money in the treasury not otherwise appropriated, arising from the sale of public lands, to be paid as hereinafter provided, to each State and Territory, for the more complete endowment and maintenance of colleges for the benefit of agriculture and the mechanic arts, now established, or which may hereafter be established, in accordance with an Act of Congress, approved July second, eighteen hundred and sixty-two, the sum of fifteen thousand dollars for the year ending June thirtieth, eighteen hundred and ninety, and an annual increase of the amount of such appropriation thereafter for ten

years, by an additional sum of one thousand dollars over the preceding year; and the annual amount to be paid thereafter to each State and Territory shall be twenty-five thousand dollars, to be applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematics, physical, natural, and economic science, with special reference to their applications in the industries of life and to the facilities for such instruction; provided, that no money shall be paid out under this act to any State or Territory for the support or maintenance of a college where a distinction of race or color is made in the admission of students, but the establishment and maintenance of such colleges separately for white and colored students shall be held to be a compliance with the provisions of this Act, if the funds received in such State or Territory be equitably divided, as hereinafter set forth; provided, that in any State in which there has been one college established in pursuance of the act of July second, eighteen hundred and sixty-two, and also in which an educational institution of like character has been established, or may be hereafter established, and is now aided by such State from its own revenue, for the education of colored students in agriculture and the mechanic arts, however named or styled, or whether or not it has received money heretofore under the Act to which this act is an amendment, the Legislature of such State may propose and report to the Secretary of the Interior a just and equitable division of the fund to be received under this Act, between one college of white students, and one institution for colored students, established as aforesaid, which shall be divided into two parts, and paid accordingly; and thereupon such institution for colored students shall be entitled to the benefits of this Act, and subject to its provisions, as much as it would have been if it had been included under the Act of eighteen hundred and sixty-two; and the fulfillment of the foregoing provisions shall be taken as a compliance with the provisions in reference to separate colleges for white and colored students.

SEC. 2. That the sums hereby appropriated to the States and Territories for the further endowment and support of colleges shall be annually paid on or before the thirty-first day of July of each year, by the Secretary of the Treasury, upon the warrant of the Secretary of the Interior, out of the Treasury of the United States, to the State or Territorial treasurer, or to such officer as shall be designated by the laws of such State or Territory to receive the same, who shall, upon the order of the trustees of the college, or the institution for colored students, immediately pay over said sums to the treasurers of the respective colleges, or other institutions entitled to receive the same, and such treasurers shall be required to report to the Secretary of Agriculture and to the Secretary of the Interior, on or before the first day of September of each year, a detailed statement of the amount so received, and of its disbursement. The grants of money authorized by this act are made subject to the legislative assent of the several States and Territories to the purpose of said grants; provided, that payments of such installments of the appropriation herein made as shall become due to any State before the adjournment of the regular session of Legislature meeting next after the passage of this act, shall be made upon the assent of the Governor thereof, duly certified to the Secretary of the Treasury.

SEC. 3. That if any portion of the moneys received by the designated officer of the State or Territory for the further and more complete endowment, support and maintenance of colleges, or of institutions for colored students, as provided in this act, shall, by any action or contingency, be diminished or lost, or be misplaced, it shall be replaced by the State or Territory to which it belongs, and until so replaced no subsequent appropriation shall be apportioned or paid to

such State or Territory; and no portion of said moneys shall be applied, directly or indirectly, under any pretense whatever, to the purchase, erection, preservation or repair of any building or buildings. An annual report by the president of each of said colleges shall be made to the Secretary of Agriculture, as well as to the Secretary of the Interior, regarding the condition and progress of each college, including statistical information in relation to its receipts and expenditures, its library, the number of its students and professors, and also as to any improvements and experiments made under the direction of any experiment stations attached to such colleges, with their cost and results, and such other industrial and economical statistics as may be regarded as useful, one copy of which shall be transmitted by mail, free, to all other colleges further endowed under this act.

SEC. 4. That on or before the first day of July in each year after the passage of this act, the Secretary of the Interior shall ascertain and certify to the Secretary of the Treasury as to each State and Territory, whether it is entitled to receive its share of the annual appropriation for colleges, or for institutions for colored students, under this act, and the amount which thereupon each is entitled, respectively, to receive. If the Secretary of the Interior shall withhold a certificate from any State or Territory of its appropriation, the facts and reasons therefor shall be reported to the President, and the amount involved shall be kept separate in the treasury until the close of the next Congress, in order that the State or Territory may, if it should so desire, appeal to Congress from the determination of the Secretary of the Interior. If the next Congress shall not direct such sum to be paid, it shall be covered into the treasury; and the Secretary of the Interior is hereby charged with the proper administration of this law.

SEC. 5. That the Secretary of the Interior shall annually report to Congress the disbursements which have been made in all the States and Territories, and also whether the appropriation of any State or Territory has been withheld, and if so, the reasons therefor.

SEC. 6. Congress may at any time amend, suspend or repeal any or all of the provisions of this act.

Approved August 30, 1890.

OFFENSES RELATING TO PUBLIC BUILDINGS.

Chapter 5 (S. B. No. 41). An act to amend article 417, chapter 4, title 13, of the Penal Code of the State of Texas.

Whereas, for the purpose of preserving the new State capitol it becomes necessary to better define the offenses set out in the aforesaid act; therefore,

SECTION 1. *Be it enacted by the Legislature of the State of Texas,* That article 417, chapter 4, title 13, of the Penal Code of the State of Texas, which took effect July 24th, A. D. 1879, be amended so as to read as follows:

SEC. 2. Article 417. If any person shall wilfully injure or deface any public building or the furniture therein in this State, he shall be fined not less than five nor more than five hundred dollars. The word deface in this act shall be held to apply to writing, carving, or scratching on the walls or plastering or furniture of said building, or staining the same with paint or any article which will produce a discoloration of the same.

SEC. 3. Whereas, the preservation of the State capitol building, together with other public buildings, creates an imperative public necessity, and an emer-

gency exists requiring the constitutional rule requiring bills to be read on three several days in each house to be suspended, and it is so suspended, and that this act take effect and be in force from and after its passage, and it is so enacted.

[NOTE.—The foregoing act originated in the Senate, and passed the same by a vote of 27 yeas, no nays; and passed the House by a vote of 76 yeas, 5 nays.]

Approved May 14, 1888.

TEXAS AGRICULTURAL EXPERIMENT STATION.

OFFICERS AND STAFF.

GOVERNING BOARD.

(BOARD OF DIRECTORS A. & M. COLLEGE.)

MAJ. A. J. ROSE, President	Austin.
HON. W. R. CAVITT.....	Bryan.
HON. G. W. BOWMAN	Plano.
HON. JOHN B. LONG.....	Rusk.
HON. D. A. PAULUS.....	Hallettsville.

TREASURER.

PRESIDENT L. S. ROSS	College Station.
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STATION STAFF.

J. H. CONNELL, M. SC.....	Director.
H. H. HARRINGTON, M. SC.....	Chemist.
M. FRANCIS, D. V. M.....	Veterinarian.
R. H. PRICE, B. S.....	Horticulturist.
D. ADRIANCE, M. S.....	Meteorologist, Associate Chemist.
JAS. CLAYTON	Agriculturist.
J. W. CARSON, B. S.....	Assistant to Director.
P. S. TILSON, M. S.....	Assistant in Chemistry.
A. M. SOULE, B. S. A.....	Assistant Agriculturist.
K. R. HOOPER.....	Stenographer.

SUPERINTENDENT OF SUB-STATION.

S. A. MCHENRY.....	Beeville, Bee Co.
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ORGANIZATION.

In accordance with the act of Congress, the Board of Directors of the Agricultural and Mechanical College of Texas, at a meeting held January 25, 1888, established the Experiment Station as a department of the College. Provision was made for assigning to the Station department such part of the College farm, buildings and other equipment of the College as would be found necessary to prosecute the work, in addition to the outfit supplied from the funds of the Station.

The Director of the Station will have general supervision of all experimental work, correspondence, and publication of bulletins and reports.

The professors of Agriculture, Chemistry, Horticulture and Veterinary Science will have charge of Station work in their several departments.

LOCATION AND SUPPORT.

The Main Station, located in 1888 on the grounds of the Agricultural and Mechanical College, is supported entirely by appropriations from the Federal government.

A permanent sub-station, largely devoted to horticulture and fruit raising, was established in 1895 in Bee county for the purpose of testing new fruits and vegetables, as to their adaptability and plant food requirements in that portion of the State. This station is some two hundred miles south of the main station. This station is supported by State appropriations made biennially for this particular purpose.

OBJECTS.

The objects of the Experiment Station and of the sub-station are clearly set forth in section two (2) of the Act of Congress to which they owe their establishment, a copy of which law is found on pages 106-108 of this Catalogue.

The Governing Board of the Station desire to make this work of as much value to the agricultural and horticultural interests of the State as may be possible. The work will be conducted at all times with special reference to giving information that may be of some practical use to the farmer. To enable them to carry out this policy, all associations having the advancement of agriculture in view—the Grange, Alliance, associations of stock breeders, or fruit growers, or other organizations—will be invited from time to time to appoint delegates to meet with the board of directors and officers of the Station, and consult and advise with them in regard to the work of the Station. Suggestions will be gladly received at all times from any one who is interested in advancing the agricultural interests of the State.

ADVANTAGE TO COLLEGE.

Financially, the Station will not be of direct benefit to the College. To compensate the College, however, for the use of property assigned to the work of the Station, such work will add largely to the ability of the

College to impart more thorough instruction in scientific and practical agriculture, horticulture, etc. College students will be employed in the work of the Station to as great an extent as may be found practicable, and the plant of the Station and experimental work in progress will increase the means of illustration of the College and be of special advantage to the students in providing practice and training in Agricultural and Horticultural work under skilled instructors. The Station will not add to the expense of the College in any way, as such time as may be given by professors or other employes in experimental work will be paid for from the Station fund, and the value of the time lost to the College deducted from the salary that would be paid by the College if the entire time was given to College work; and in order not to impair the efficiency of instruction the board has provided for additional instructors to relieve the professors of a portion of their class work.

WORK UNDER WAY.

A part of the farm of 2416 acres is devoted to experimental purposes. Experiments to test the feeding value of certain foods for the production of pork and for beef have been recently conducted and are not yet published.

Numerous scientific investigations have been conducted, and some are now under way, including chemical analyses of soils; stock foods; cotton seed products; animal diseases and parasites; injurious insects and fungi. The Horticultural Department has under trial on the Station grounds many varieties of vegetables and 700 varieties of large and small fruits.

STATION PUBLICATIONS.

Reports of the results of experiments are published once each quarter, or oftener, for free distribution to the people of the State who may be interested in farming. The following reports have been issued on the work up to date (March 1, 1895): Bulletin No. 1, Plan of Organization; No. 2, Cattle Feeding; No. 3, Grasses and Forage Plants; No. 4, Cotton Blight; No. 5, Creameries for Texas; No. 6, Cattle Feeding; No. 7, Cotton Blight; No. 8, Diseases of Grapes; No. 9, Pear Stocks; No. 10, Cattle Feeding; No. 11, Effect of Cotton Seed and Cotton Seed Meal on Butter Product; No. 12, The Screw Worm; No. 13, Sorghum; No. 14, Effect of Cotton Seed and Cotton Seed Meal on the Dairy Ration; No. 15, Influence of Climate on Composition of Corn; No. 16, Drainage

Experiments with Cabbage, Irish Potatoes, and Strawberries; No. 17, General Information; No. 18, Liver Flukes; No. 19, Corn Fodder; No. 20, Grasses and Forage Plants; No. 21, Effect of Cotton Seed and Cotton Seed Meal in Feeding Hogs; No. 22, Alfalfa Root Rot; No. 23, Black Rot of the Grape; No. 24, The Cattle Tick; No. 25, Texas Soils; No. 26, Cost of Cotton Production; No. 27, Steer Feeding; No. 28, Sweet Potatoes; No. 29, Effect of Cotton Seed Ration on Butter, Beef, Tallow, Lard, and Sheep Suet; No. 30, Veterinary Science; No. 31, Insects Injurious to Stored Grain; No. 32, Varieties of Plums, Apricots, and Japan Persimmons, Injurious Fungi and Insects; No. 33, Feeding Milk Cows; No. 34, Field Experiments at College Station, McKinney, and Wichita Falls Sub-Stations; No. 35, Miscellaneous Chemical Analyses; No. 36, Vegetables, Insecticides; No. 37, Sundry Brief Articles. Annual Reports for 1888, '89, '90, '91, '92, '93, '94, and '95.

We have many of these publications on hand for distribution. They may be had by postal card application to the Director.

An act to establish Agricultural Experiment Stations in connection with the colleges established in the several States under the provisions of an act approved July 2, 1862, and of the acts supplementary thereto.

SECTION 1. *Be it enacted by the Senate and House of Representatives of the United States of America, in Congress assembled,* That in order to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science, there shall be established, under direction of the college or colleges, or agricultural departments of colleges, in each State or Territory, established, or which may be hereafter established in accordance with the provisions of an act approved July 2, 1862, entitled "An act donating public lands to the several States and Territories which may provide colleges for the benefit of agriculture and the mechanic arts," or any of the supplements to said act, a department to be known and designated as an "Agricultural Experiment Station;" provided, that in any State or Territory in which two such colleges have been or may be so established, the appropriation hereinafter made to such State or Territory shall be equally divided between such colleges, unless the Legislature of said State or Territory shall otherwise direct.

SEC. 2. That it shall be the object and duty of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation: the analyses of soils and water; the chemical composition of manures, natural or artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and foliage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and

cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective States and Territories.

SEC. 3. That in order to secure, as far as practicable, uniformity of methods and results in the work of said stations, it shall be the duty of the United States Commissioner of Agriculture to furnish forms, as far as practicable, for the tabulation of results of investigation or experiments; to indicate from time to time such lines of inquiry as to him shall seem most important, and in general to furnish such advice and assistance as will best promote the purposes of this act. It shall be the duty of each of said stations, annually, on or before the first day of February, to make to the Governor of the State or Territory in which it is located a full and detailed report of its operations, including a statement of receipts and expenditures; a copy of which report shall be sent to each of the said stations, to the said Commissioner of Agriculture, and to the Secretary of the Treasury of the United States.

SEC. 4. The bulletins or reports of progress shall be published at said stations at least once in three months; one copy of each shall be sent to each newspaper in the States or Territories in which they are respectively located, and to such individuals actually engaged in farming as may request the same, and as far as the means of the station will permit. Such bulletins or reports and the annual reports of said stations shall be transmitted in the mails of the United States free of charge of postage, under such regulations as the Postmaster General may from time to time prescribe.

SEC. 5. That for the purpose of paying the necessary expenses of conducting investigations and experiments and printing and distributing the results as heretofore prescribed, the sum of \$15,000 is hereby appropriated to each State, to be specially provided for by Congress in the appropriations from year to year, and to each Territory entitled under the provisions of section 2 of this act, out of any money in the treasury proceeding from the sale of public lands, to be paid in equal quarterly payments on the first day of January, April, July, and October of each year, to the treasurer or other officer duly appointed by the governing boards of said colleges to receive the same, the first payment to be made on the first day of October, 1887; provided, however, that out of the first annual appropriation so received by any station an amount not exceeding one-fifth may be expended in the erection, enlargement or repair of a building or buildings necessary for carrying on the work of such station; and thereafter an amount not exceeding five (5) per centum of such annual appropriations may be so expended.

SEC. 6. That whenever it shall appear to the Secretary of the Treasury, from the annual statement of receipts and expenditures of any of said stations, that a portion of the preceding annual appropriation remains unexpended, such amount shall be deducted from the next succeeding annual appropriation to such station, in order that the amount of money appropriated to any station shall not exceed the amount actually and necessarily required for its maintenance and support.

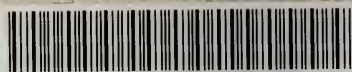
SEC. 7. That nothing in this act shall be so construed to impair or modify the legal relation existing between any of the said colleges and the governments of the States and Territories in which they are respectively located.

SEC. 8. That in States having colleges entitled under this section to the benefits of this act, and having also Agricultural Experiment Stations established by law separate from said colleges, such States shall be authorized to apply such benefits to experiments at stations so established by said States; and in case any

State shall have established, under the provisions of said act of July 2, aforesaid, an agricultural department or experimental station in connection with any university, college or institution not distinctively an agricultural college or school, and such State shall have established, or shall hereafter establish, a separate agricultural school which shall have connected therewith an experimental farm or station, the Legislature of such State may apply, in whole or in part, the appropriation by this act made to such separate agricultural college or school, and no Legislature shall by contract, express or implied, disable itself from so doing.

SEC. 9. That the grants of moneys authorized by this act are made subject to the legislative assent of the several States and Territories to the purpose of said grants; provided, that payment of such installments of the appropriation herein made as shall become due to any State before the adjournment of the regular session of its Legislature meeting next after the passage of this act shall be made upon the assent of the Governor thereof, duly certified to the Secretary of the Treasury.

SEC. 10. Nothing in this act shall be held or construed as binding the United States to continue any payments from the treasury to any or all of the States or institutions mentioned in this act, but Congress may, at any time, amend, suspend or repeal any or all of the provisions of this act.



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